Cassette Car Radio 22 DC 588/71

Service
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For repair instructions of the cassette deck see Service Manual SCA 4.4 (4822 725 23509)

ServiceManual

12 V

Published by Consumer Electronics Printed in The Netherlands Subject to modification 4822 725 23513

PCS 70 966

PHILIPS

PHILIPS

CONTENTS

Technical Datas

General

Power supply:	14,4 V
Currents:	2 mA (set switched off)
	ca. 2,9 A (4x5 W Cassette mode)
	ca. 2,8 A (4x5 W Radio mode)

Radio

FM frequency range	87,5 - 108 MHz
AM frequency range	153 - 1602 KHz
FM search grid	50 KHz (100 KHz displayed)
	(100 KHz RDS mode)
AM search grid	9 KHz
Presets	6 FM
	6 TP
	6 AS
	6 AM
FM search tuning	2 levels (LO/DX)
IF	10,7 MHz

Cassette

Number of tracks	2
Tape speed	4,76 cm/sec
Wow + flutter	0,35 %
Crosstalk	28 dB

Amplifier

Output	4 x 18 W at 4 Ω load
Channel separation max.	34 dB (1 KHz)

CONTROLS

1. On/Off, Volume, Search
turn: on/off + volume.
push: start search tuning on LOC level, scan all stations and play them for 5 sec.
Automatic switching to DX level after run through of LOC level.
push-push: start search tuning on DX level, scan all stations and play them for 5 sec.
push - while scan- search tuning: stop at the last received station.
hold: manual search tuning, after releasing the button the next receivable station will be reproduced.
push: - while ignition off and volume knob in on position: switch on set for 1 hour
push: - while cassette mode: reverse direction

2. Treble
push: sink and release the button
turn: adjust treble
pull-turn: adjust GALA volume

3. Bass
push: sink and release the button
turn: adjust bass
pull-turn: adjust fader

4. Eject
push: start/stop cassette playback
hold 1 sec: cassette eject

5. FF (FR)
push: - while cassette mode: wind/stop wind fast forward (backward)
hold: - while CDC mode: playback fast forward (backward), cue (review)

6. Tune next (Tune previous)
push: start search tuning up (down) to next receivable station.
Automatic switch to DX level if no LOC level station can be found
push-push: start search tuning in DX level up (down) to next receivable station
hold: start manual search tuning up (down) after 1 sec until button is released
push: - while RDS mode: scroll stations of learn memory (AS/TP/FM)
push: - while cassette mode: start MSS forward (backward)
push: - while CDC mode: next (previous) track of current CD

7. Band
push: scroll wavebands - FM - AS - AM - FM ...
hold 2 sec: search best FM-stations for learn memory (AS/TP/FM)

8. Presets
push: select stored stations of the preselected band
hold 2 sec: store actual station
push: - while CDC mode: select concerned CD

9. TP
push: select band where only RDS stations with TP- and EON-TP-information can be received and stored under presets.
- while TP band and no TP station selected: Switch to TP station if traffic announcement comes.
- while AM, FM or AS band and no TP station selected: start TP search

10. CD
push: switch between radio- (or cassette-) and CDC mode

11. RDS
push: RDS on/off (default on). AF, PI, PS, TP, TA, EON, PTY, MS (music/speech) features on/off.

12. S. Dolby
push: Stereo on/off
push: - while cassette mode: DOLBY (NR) ON/OFF
push: - while CDC mode: Shuffle play of actual CD

13. TA
push: mute and start TP search if necessary, switch from AM to FM-TP,
only traffic announcements audible in mono with TA-loudness.
push: - while cassette or CDC mode: interrupt reproduction of cassette or CD during TA
hold 1 sec: store actual volume as TA volume

SECURITY CODE HANDLING

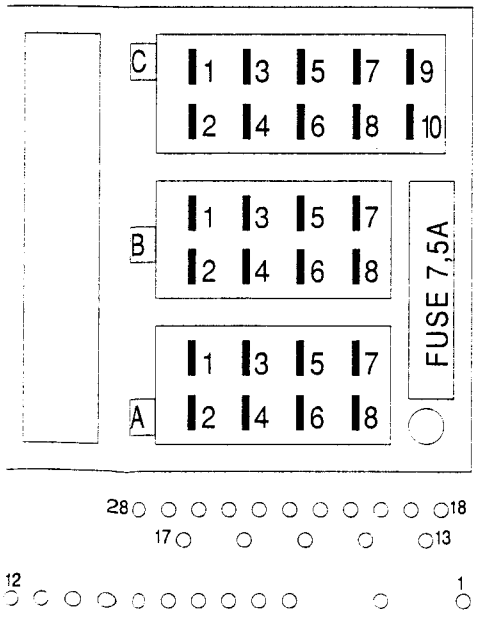
Action	Displayed character
Activation	
Press 'TA' and 'TP' >3 sec.	CODE (for 3 sec.), -> 1000
Push presets '1...4'	digits of code number changes
Press 'TA' and 'TP' >3 sec.	SAFE
DEACTIVATION OF THEFT PROTECTION IS NOT POSSIBLE !!!	
Code entering after power interruption	
	SAFE
Press 'TA' and 'TP' >3 sec.	1000
Push presets '1...4'	digits of code number changes
Press 'TA' and 'TP' >3 sec.	SAFE
Wrong code	
Enter wrong code number	SAFE 1 (flashing for first 3 sec.)
Press 'TA' and 'TP' >3 sec.	1000 1
Enter code.	
Enter wrong code number twice	SAFE 2 (flashing for first 3 sec.)
Wait 1 hour (do not switch off !)	SAFE
Enter code.	

Unknown code (lost code-card)
Contact your local VW-organisation to get the right code for your set.

! NOTE
If you have any problems with activation of security code or others which belongs to the code, send the set to:

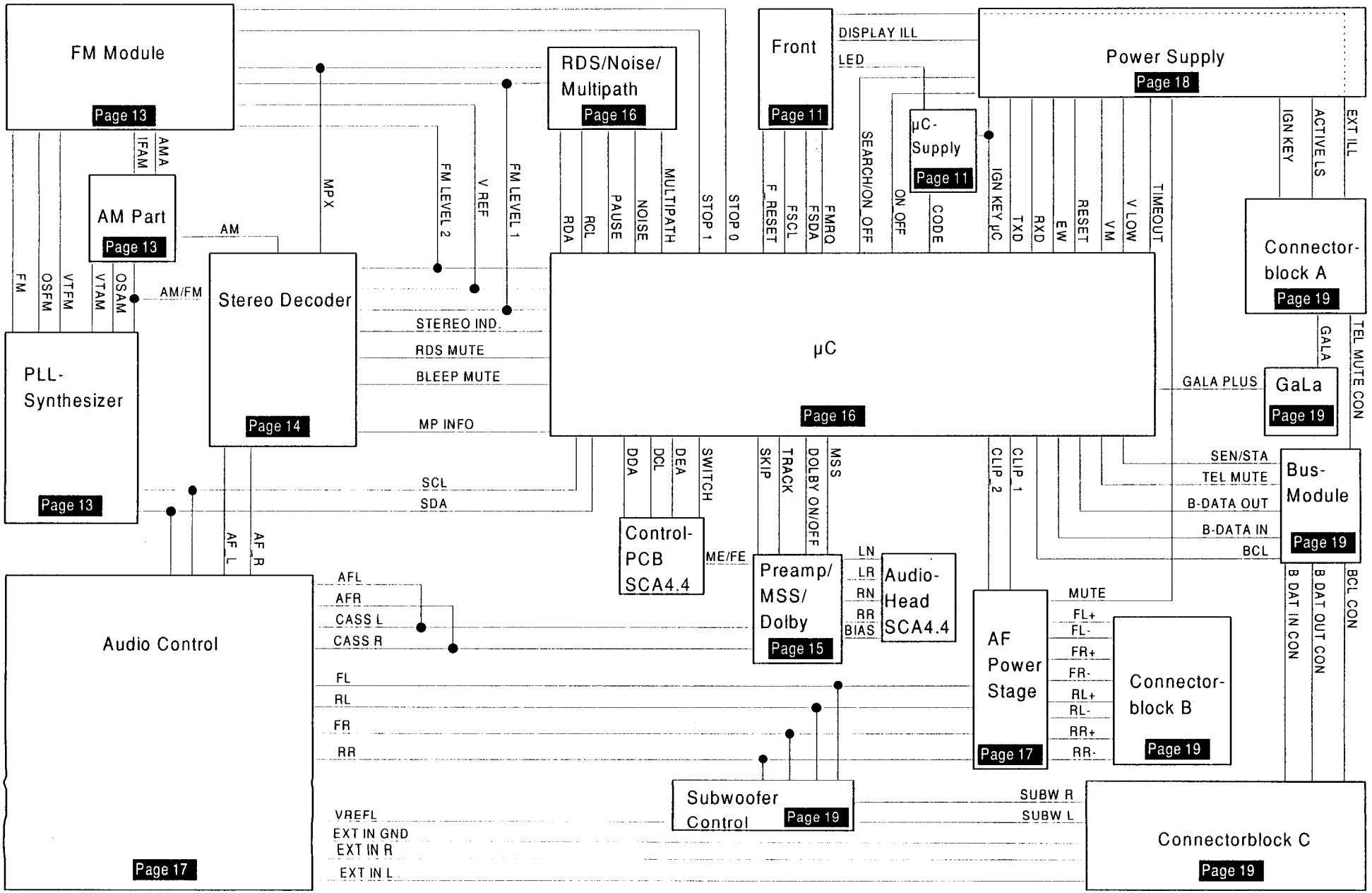
Philips Apparatefabrik Wetzlar
Department SP-CS
Philipsstrasse 1
D - 6330 Wetzlar
GERMANY

CONNECTORBLOCK 22DC588



C1: DATA IN	>27	C6: SWITCHED + (CDC)	>5
C2: CLOCK	>26	C7: EXT.IN R	>10
C3: EXT.IN GND	>25	C8: SUBW.R	>9
C4: DATA OUT	>17	C9: SUBW.L	>8
C5: GND	>6	C10: EXT.IN L	>7
B1: RR+	>19	B5: FL+	>22
B2: RR-	>24	B6: FL-	>21
B3: FR+	>23	B7: RL+	>20
B4: FR-	>14	B8: RL-	>13
A1: GALA	>16	A5: SWITCHED + (AERIAL)	>4
A2: TEL.MUTE	>15	A6: EXT.ILL.	>2
A3: SWITCHED + (LS)	>28	A7: PERM.+	>1
A4: IGN.KEY	>3	A8: GND	>18

WIRING DIAGRAM 22DC588



TESTMODE

Press the FF - button more than 5 seconds to activate the testmode. The display shows two lines:

Main-Line

Q R S S F F F

- last 3 figures of tuned frequency
  range 87.5 - 08.0 MHz
- distortion counter (number of distortions in the last 10 sec.)
  range 00 - 96 hexadecimal
- RDS Data-quality
  range 0 - F hexadecimal
- Qualitylevel of tuned frequency
  range 0 - F hexadecimal

Sub-Line

F M N

- Noise
  range 0 - F hexadecimal
- Multipath
  range 0 - F hexadecimal
- Fieldstrength
  range 0 - F hexadecimal

Example

Main-Line Sub-Line

RDS AF EF0089.3 TP F00 ∞

Push FF - button again (short) to see information about stored AF's of actual station:

Main-Line (stored values)

Q I P F F F F L

- Link indicator
  T = frequency linked to actual transmitter
  _ = frequency of other transmitter
- tuned frequency
  range 87.5 - 108.0 MHz
- PI Confidence level
  range 0 - 7
- adjacent channel interference
  range 0 - 3
- Qualitylevel of tuned frequency
  range 0 - F hexadecimal

Sub-Line (actual values)

F M N

- Noise
  range 0 - F hexadecimal
- Multipath
  range 0 - F hexadecimal
- Fieldstrength
  range 0 - F hexadecimal

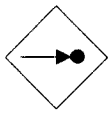
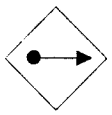
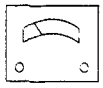
Example

Main-Line Sub-Line

RDS AF B09 87.6T TP 120 ∞

Push FF- button again to switch back to testmode 1.
Switch set off or press FF - button more than 5 seconds to leave the testmode.

Checks 22DC588

Check	Band					
Varicap-voltage	AM FM			153 KHz 1602 KHz 87,5 MHz 108 MHz	IC 7251 PIN 15 FM 1008 PIN 15	> 1,5 V < 6,0 V > 1,0 V < 6,0 V
Demodulated AM - level	AM	1053 KHz, 1 mV 1 KHz, 30% AM			IC 7201 PIN 12	350 +/- 100 mV
Demodulated FM - level	FM	93,0 MHz, 1 mV △ f = 22,5 KHz f mod = 1 KHz 93,0 MHz, 1 mV △ f = 6,75 KHz f mod = 19 KHz 93,0 MHz, 1 mV △ f = 3,75 KHz f mod = 57 KHz			FM 1008 PIN 2	160 mV 45 mV 20 mV
FM mute S/N	FM	93,0 MHz, 1 mV △ f = 22,5 KHz f mod = 1 KHz 93,0 MHz, 1 mV △ f = 22,5 KHz without modulation			Connectorblock Section B PIN 3 + PIN 5	600 - 800 mV => Referencelevel (dB) Referencelevel - 24 dB
Tel. mute	FM	93,0 MHz, 1 mV △ f = 22,5 KHz f mod = 1 KHz Connectorblock Section A: connect PIN 2 to GND			Connectorblock Section B PIN 3 + PIN 5	600 - 800 mV => Referencelevel (dB) Referencelevel - 40 dB
Wide band AGC switch	AM	1053 KHz, 10 mV without modulation 1053 KHz, 2,0 V without modulation			IC 7201 PIN 1	V1 ~ 6,5 V V2 ~ 7,0 V (V2 - V1 > 0,5 V)
FM - search - sensitivity	FM FM	94,1 MHz, 8 µV △ f = 22,5 KHz f mod = 1 KHz 94,1 MHz, 80 µV △ f = 22,5 KHz f mod = 1 KHz		DX - Search tuning LO - Search tuning		t start/stop < 20 sec.
AM - search-sensitivity	AM AM	1053 KHz, 20 µV without modulation 1053 KHz, 200 µV without modulation		DX - Search tuning LO - Search tuning		t start/stop < 15 sec.

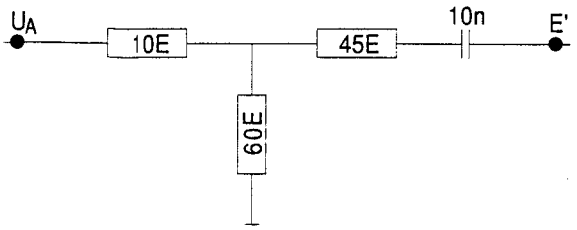
Adjustments 22DC588

Adjustment	Band					
∝ - 3 dB	FM FM	94,1 MHz, 1 mV △ f = 22,5 KHz f mod = 1 KHz 94,1 MHz, 5 µV △ f = 22,5 KHz f mod = 1 KHz		 R 3105	Connectorblock Section B PIN 3 + PIN 5 Connectorblock Section B PIN 3 + PIN 5	600 - 800 mV => Referencelevel (dB) Referencelevel - 3 dB
SDS Channel - separation	FM	94,1 MHz, 63 µV △ f = 22,5 KHz f mod = 1 KHz (right channel only) Stereo-Pilot 10%		R 3630	Connectorblock Section B PIN 3 <-> PIN 5	5 dB (+/- 1 dB)
Channel - separation maximum	FM	94,1 MHz, 4 mV △ f = 22,5 KHz f mod = 1 KHz (right channel only) Stereo-Pilot 10%		R 3608	Connectorblock Section B PIN 3 <-> PIN 5	> 34 dB
Noise - detector	FM	94,1 MHz, 1 mV △ f = 75 KHz f mod = 40 KHz		R 3426	Testmode (push FF more than 5 sec.)	third figure of subline=3
Dolby level	CC	SBC 419 200 nWb / m 400 Hz	normal + reverse	R 3514 (right) R 3504 (left)	IC 7535 PIN 3 (right) PIN 14 (left)	450 mV

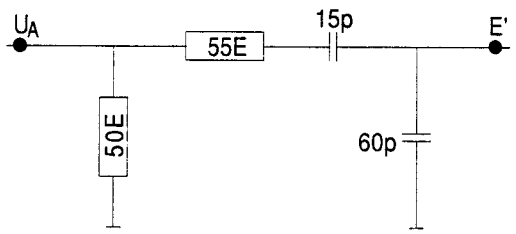
Do not adjust coils 5210 and 5228 (AM-PART), because they are correctly preadjusted by supplier !

For all checks and alignments use VW Dummy-aerials:

FM - Ri: 75 Ohm / 6 dB E' (µV) = U_A (µV)



AM - Ri: 50 Ohm / 20 dB E' (µV) = 0,2 x U_A (µV)

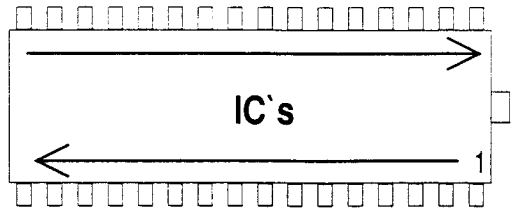


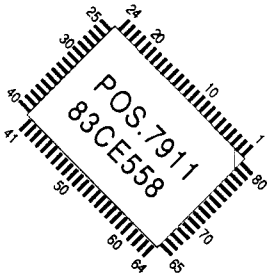
! NOTE

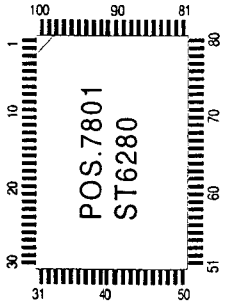
FM- and AM- search sensitivities are only adjustable with a special equipment via software.
If you get sets with search sensitivities out of specification, send them to factory-service in Wetzlar until further notice.

Philips Apparatefabrik Wetzlar
Department SP-CS
Philipsstrasse 1
D - 35576 Wetzlar
GERMANY

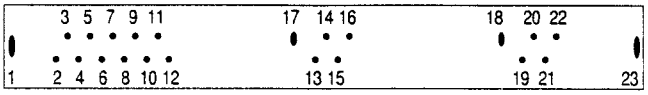
PIN - ALLOCATIONS
Views from chip side (bottom)

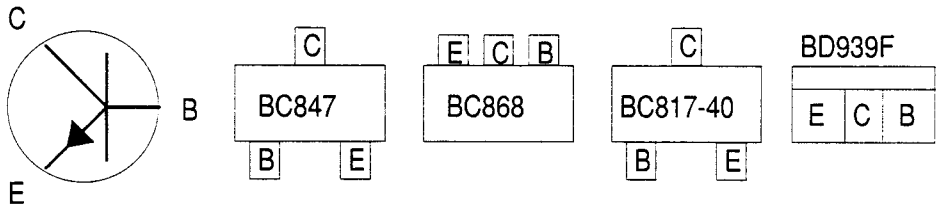






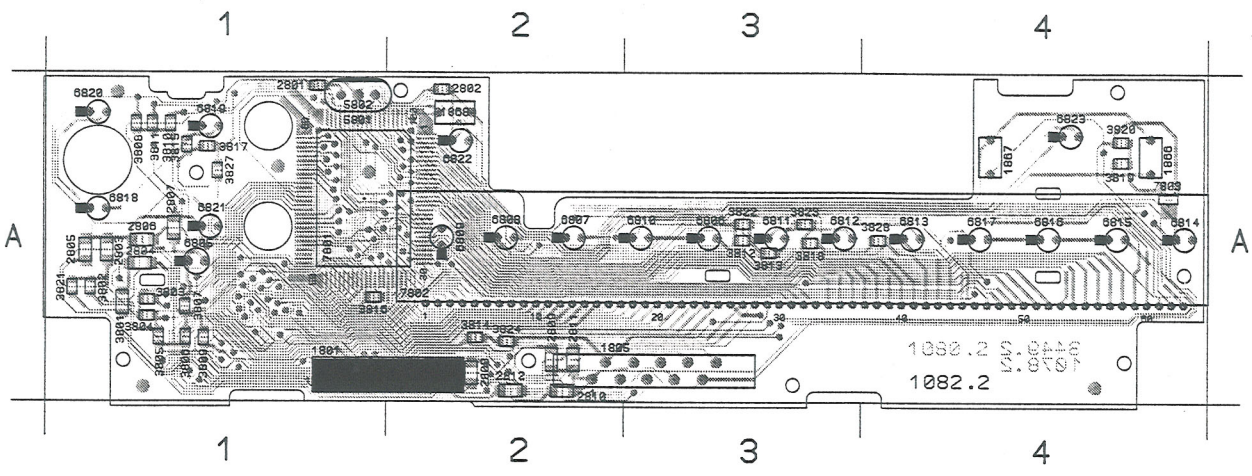
POS.1008 FM-MODUL





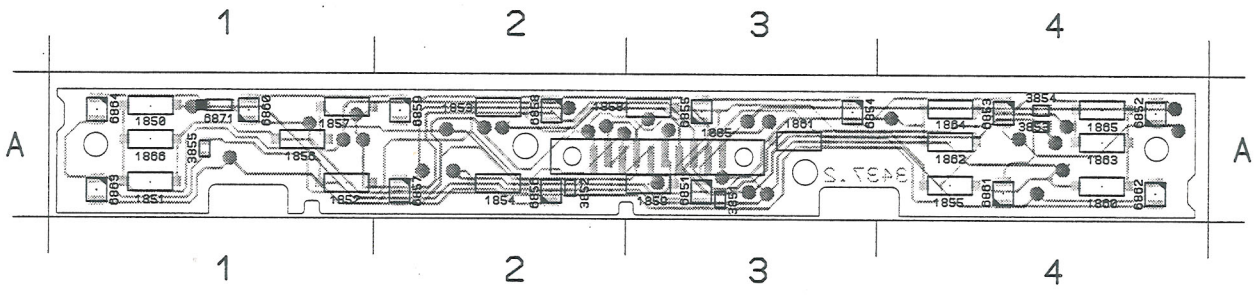
FRONT PWB'S

1801 A 1 2801 A 1 2805 A 1 2811 A 2 3804 A 1 3809 A 1 3814 A 2 3819 A 4 3824 A 2 5805 A 1 5810 A 3 5815 A 4 5820 A 1 7802 A 2
1805 A 2 2802 A 2 2807 A 1 2812 A 2 3805 A 1 3810 A 1 3815 A 1 3820 A 4 3827 A 1 5806 A 3 5811 A 3 5816 A 4 5821 A 1 7803 A 4
1806 A 4 2803 A 1 2808 A 2 3801 A 1 3806 A 1 3811 A 1 3816 A 1 3821 A 1 3828 A 4 5807 A 2 5812 A 3 5817 A 4 5822 A 2
1807 A 4 2804 A 1 2809 A 2 3802 A 1 3807 A 1 3812 A 3 3817 A 1 3822 A 3 5801 A 1 5808 A 2 5813 A 4 5818 A 1 5823 A 4
1808 A 2 2805 A 1 2810 A 2 3803 A 1 3808 A 1 3813 A 3 3818 A 3 3823 A 3 5802 A 1 5809 A 2 5814 A 4 5819 A 1 7801 A 1



LCD PWB

1085 A 2 1852 A 1 1855 A 4 1858 A 3 1861 A 3 1864 A 4 3851 A 3 3854 A 4 6852 A 4 6855 A 3 6858 A 2 6861 A 4 6864 A 1
1850 A 1 1853 A 2 1856 A 1 1859 A 3 1862 A 4 1865 A 4 3852 A 2 3855 A 1 6853 A 4 6856 A 2 6859 A 2 6862 A 4 6871 A 1
1851 A 1 1854 A 2 1857 A 1 1860 A 4 1863 A 4 1866 A 1 3853 A 4 6851 A 3 6854 A 3 6857 A 2 6860 A 1 6863 A 1



SWITCH PWB

Pos.7801 ST62E80
1 - 17: 3,8 V (LCD-DATA)
18: NC
19: GND
20: 0,0...5,0 V (VOLDEP.)
21: 0,0...5,0 V (BASSDEP.)
22: 0,0...5,0 V (TREBDEP.)
23: 0,0...5,0 V (GALADEP.)
24: 0,0...5,0 V (FADDEP.)
25, 26: 0,0 V (KEYMATRIX)
27: GND
28: 2,3 V (OSZ)
29: 1,8 V (OSZ)
30: 5,0 V (F-RESET)
31 - 33: 0,0 V (KEYMATRIX)
34 - 36: 5,0 V (KEYMATRIX)
37, 38: 5,0 V
39: GND
40: 5,0 V
41: GND
42: 10,0 V (8,5 V SHARPDISPL.)
43: 6,0 V
44: 4,5 V
45: 3,0 V
46: 1,5 V
47, 48: 5,0 V (SDA)
49: 5,0 V (SCL)
50: 5,0 V (MRQ)
51 - 54: NC
55 - 100: 3,8 V (LCD-DATA)

Pos. 7803 BC847
B: 0,6 V / 0,8 V (EXT.ILL.)
C: 0,0 V / 0,6 V (EXT.ILL.)
E: GND

Pos.7913 BC847
B: 0,0 V / 5,0 V (IGN.OFF)
C: 5,0 V
E: 0,0 V / 4,3 V (IGN.OFF)

Pos.7914 BC847
B: 0,6 V / 0,0 V (IGN. OFF)
C: 0,0 V / 5,0 V (IGN. OFF)
E: GND

Pos. 7924 BC847
B: 5,0 V
C: 5,0 V
E: GND

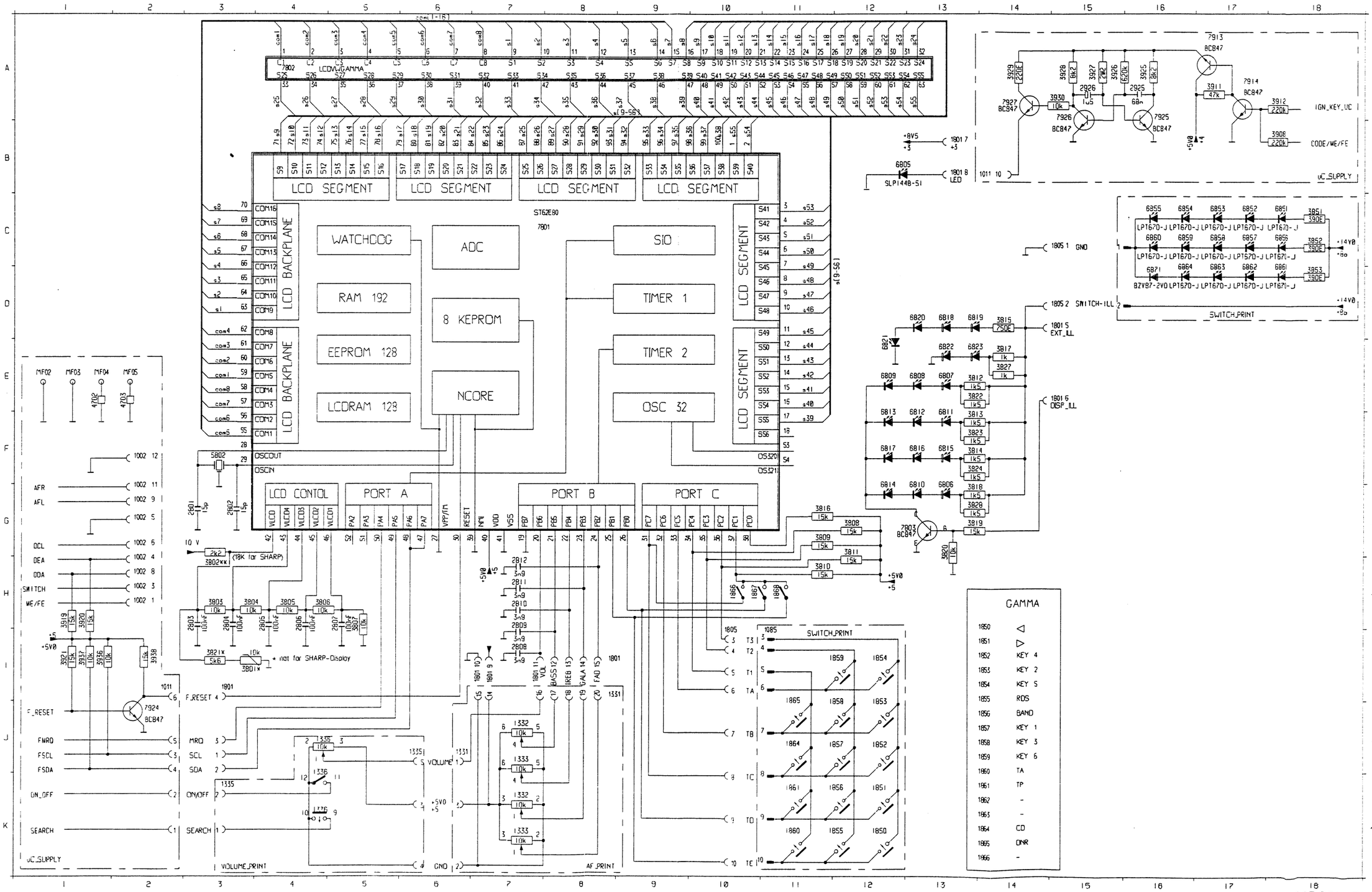
Pos.7925 BC847
B: 0,0 V / BLINKLED (IGN.OFF)
C: 0,0 V / BLINKLED (IGN.OFF)
E: GND

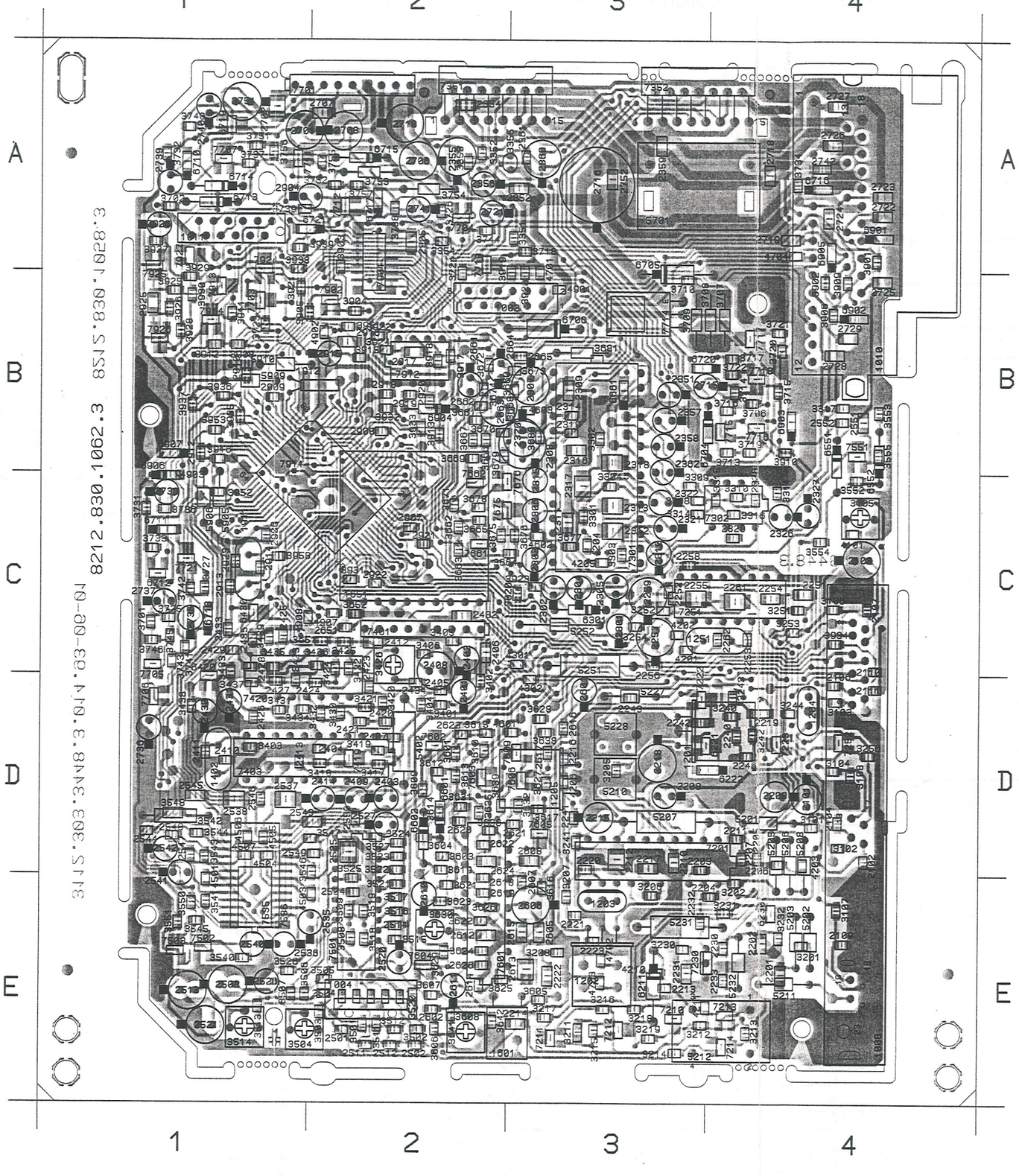
Pos.7926 BC847
B: 0,0 V / BLINKLED (IGN.OFF)
C: 0,0 V / BLINKLED (IGN.OFF)
E: GND

Pos.7927 BC847
B: 0,0 V / BLINKLED (IGN.OFF)
C: 0,0 V / 4,3 V (IGN.OFF)
E: 0,0 V / V_BLINKLED (IGN.OFF)

LCD / SWITCHES / ILLUMINATION / AF / VOL. / uC SUPPLY

1002 H 2	1011 B14	1801 E14	1852 J12	1861 K11	2804 H 3	2925 A16	3803 G12	3817 E14	3828 G13	3921 I 1	3938 I 2	6810 G13	6819 D13	6855 C16	6864 D16	7926 A15
1002 H 2	1332 K 7	1801 B13	1853 J12	1864 J11	2805 H 4	2926 A15	3809 G11	3818 G13	3851 C18	3925 A16	4702 E 1	6811 F13	6820 D13	6856 C18	6871 D16	7927 A14
1002 H 2	1332 J 7	1801 B13	1854 I12	1865 J11	2806 H 4	3801× I 3	3810 H11	3819 G13	3852 C18	3926 A15	4703 E 2	6812 F13	6821 E12	6857 C17	7801 C 7	MF02 E 1
1002 G 2	1333 K 7	1801 I 7	1855 K12	1866 H10	2807 H 5	3802× H 3	3811 G12	3820 G13	3853 D18	3927 A15	5802 F 3	6813 F12	6822 E13	6858 C17	7802 A 4	MF03 E 1
1002 G 2	1333 J 7	1801 I 7	1856 K12	1867 H10	2808 I 7	3803 H 3	3812 E13	3821× I 3	3908 B18	3928 A15	6805 B12	6814 G12	6823 E13	6859 C16	7803 G13	MF04 E 1
1002 H 2	1336 J 4	1805 C14	1857 J12	1868 H11	2909 H 7	3804 H 3	3813 F13	3822 E13	3911 A17	3929 A14	6806 G13	6815 F13	6851 C18	6860 C16	7913 A17	MF05 E 2
1002 G 2	1336 K 4	1805 D14	1858 J12	2501 G 3	2810 H 7	3805 H 4	3814 F13	3823 F13	3912 A18	3930 A15	6807 E13	6816 F13	6852 C17	6861 D18	7914 A17	
1002 G 2	1336 K 4	1850 K12	1859 I12	2802 G 3	2811 H 7	3806 H 4	3815 D14	3824 F13	3919 H 1	3936 I 1	6808 E13	6817 F12	6853 C17	6862 D17	7924 J 2	
1002 F 2	1801 D14	1851 K12	1860 K11	2903 H 3	2812 H 7	3807 H 5	3816 G11	3827 E14	3920 H 1	3937 I 1	6809 E12	6818 D13	6854 C16	6863 D17	7925 A16	



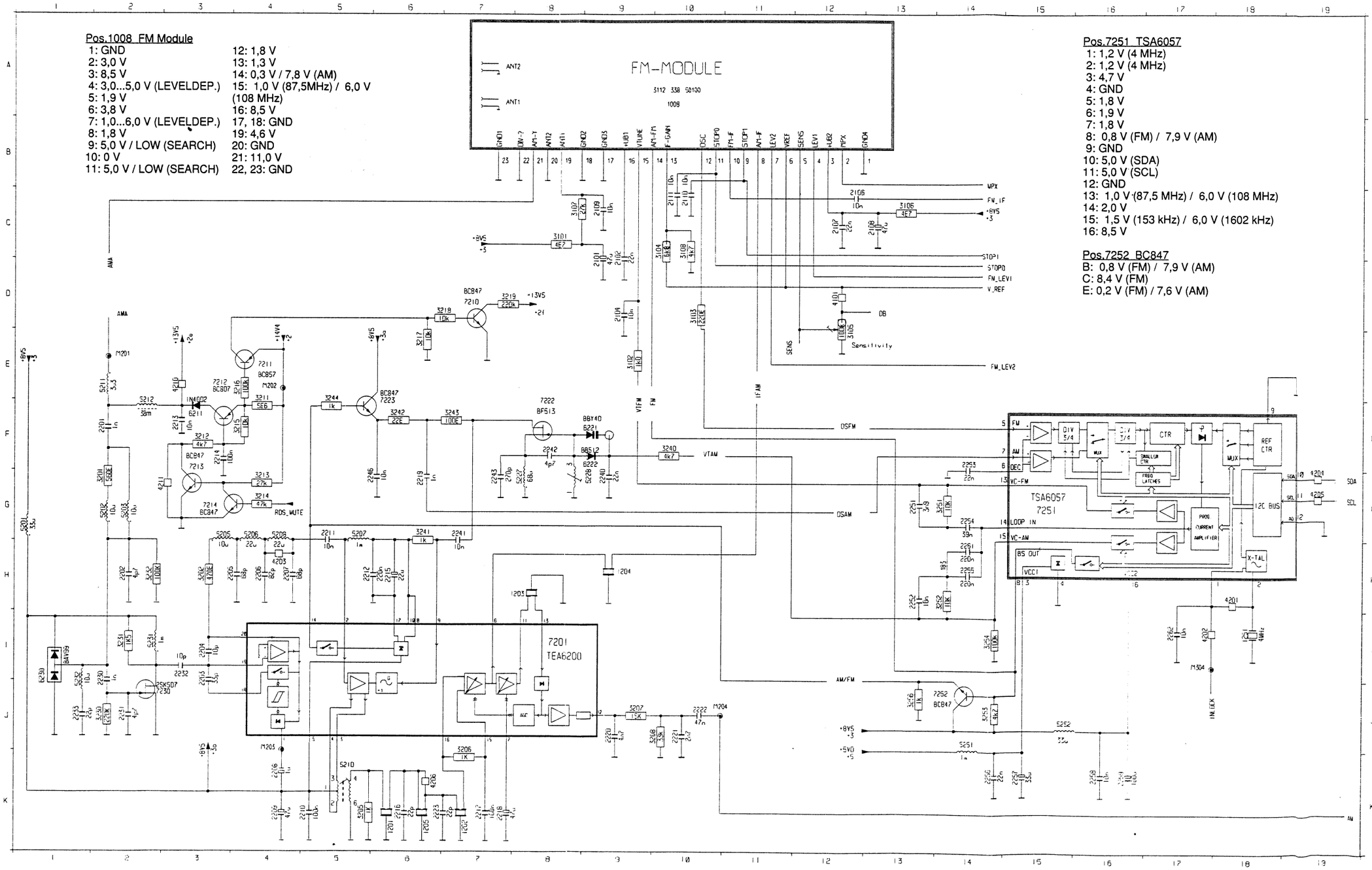


1002 B 2	2310 C 3	2542 D 1	2914 C 1	3424 C 2	3627 D 3	3755 A 2	5208 D 4	7605 D 3	
1004 E 2	2311 C 3	2543 D 2	2915 B 2	3425 C 2	3628 D 3	3756 A 1	5210 D 3	7606 D 3	
1008 D 4	2312 C 3	2544 D 1	2916 B 2	3426 C 2	3629 E 2	3757 A 2	5211 E 4	7609 D 3	
1010 A 4	2313 C 3	2545 D 1	2917 B 2	3430 D 2	3630 E 2	3901 A 4	5212 E 4	7661 C 2	
1011 A 1	2314 B 3	2546 D 1	2918 B 2	3431 D 1	3631 D 2	3902 B 4	5227 D 3	7662 C 2	
1201 D 3	2315 C 3	2547 D 1	2919 B 2	3432 D 2	3632 D 3	3903 A 2	5228 D 3	7675 C 2	
1202 E 3	2316 B 3	2548 D 1	2920 B 2	3433 C 1	3635 D 2	3904 B 2	5231 E 3	7676 C 2	
1203 E 3	2317 C 3	2549 D 2	2921 C 2	3434 D 1	3636 D 2	3905 B 1	5232 E 4	7701 A 2	
1204 D 4	2318 B 3	2550 D 2	2922 C 2	3435 C 1	3638 D 3	3906 B 4	5251 C 3	7703 B 1	
1205 D 3	2319 B 3	2551 B 4	2923 C 1	3436 C 2	3639 D 2	3908 B 1	5252 C 3	7704 A 2	
1251 C 4	2320 B 3	2552 B 4	2925 B 1	3437 D 1	3641 E 2	3909 B 4	5402 D 2	7705 C 1	
1402 D 1	2321 C 3	2601 D 3	2926 A 1	3438 D 1	3642 E 2	3910 B 4	5701 A 3	7706 D 1	
1601 E 3	2322 C 3	2602 E 2	3101 D 4	3439 C 1	3651 C 2	3911 B 1	5905 C 1	7707 A 1	
1651 C 2	2326 C 4	2605 E 3	3102 D 4	3501 E 2	3652 C 2	3912 B 1	5906 C 1	7711 A 1	
1911 C 1	2327 C 4	2606 E 3	3103 D 4	3502 E 2	3660 B 3	3913 B 2	5909 B 1	7712 A 2	
1912 B 1	2328 C 4	2607 E 3	3104 D 4	3503 E 2	3661 B 2	3915 B 2	5910 B 1	7714 B 3	
2101 D 4	2329 C 4	2608 D 3	3105 C 4	3504 E 1	3662 C 2	3916 B 1	6211 E 3	7715 B 4	
2102 D 4	2351 B 3	2610 E 2	3106 C 4	3505 E 2	3663 C 2	3917 B 2	6221 D 3	7716 B 4	
2104 D 4	2352 A 3	2611 E 2	3107 E 4	3506 E 1	3664 C 3	3918 B 2	6222 D 4	7717 B 4	
2106 D 4	2354 A 2	2612 E 2	3108 D 4	3507 E 1	3665 C 2	3919 B 3	6230 E 4	7718 B 4	
2107 C 4	2355 A 2	2613 E 3	3201 E 4	3508 E 2	3666 B 2	3920 B 3	6301 C 3	7719 A 2	
2108 C 4	2356 A 2	2614 E 2	3202 E 4	3509 E 2	3667 B 2	3921 B 1	6420 D 1	7721 C 1	
2109 E 4	2357 B 3	2615 E 3	3205 D 3	3511 E 2	3668 B 3	3922 B 2	6430 C 1	7901 A 2	
2110 C 4	2358 B 3	2616 D 3	3206 E 3	3512 E 2	3669 B 2	3923 C 3	6551 B 4	7902 B 2	
2111 D 4	2359 A 3	2617 D 3	3207 E 3	3513 E 1	3670 B 2	3924 B 2	6552 B 4	7911 C 2	
2201 E 4	2360 A 3	2618 E 2	3208 E 3	3514 E 1	3671 C 2	3925 B 1	6601 D 2	7912 B 2	
2202 E 4	2361 A 3	2619 E 2	3211 E 3	3515 E 2	3672 B 2	3926 B 1	6602 D 2	7913 B 1	
2203 D 3	2362 B 3	2620 D 2	3212 E 3	3516 E 2	3673 B 3	3927 A 1	6661 B 3	7914 B 1	
2204 E 4	2401 D 2	2621 D 3	3213 E 4	3517 E 2	3674 B 2	3928 B 1	6704 B 3	7924 A 1	
2205 D 4	2402 C 2	2622 D 2	3214 E 3	3518 E 2	3675 C 2	3929 B 1	6705 B 3	7925 A 1	
2206 D 4	2403 D 2	2623 D 2	3215 E 3	3519 E 2	3676 C 3	3930 B 1	6706 B 3	7926 B 1	
2207 D 4	2404 D 2	2624 D 2	3216 E 3	3520 E 2	3677 C 3	3931 C 2	6710 A 1	7927 A 1	
2208 D 3	2405 D 2	2626 E 2	3217 E 3	3521 E 2	3678 C 2	3932 B 2	6711 C 1		
2209 D 4	2406 C 2	2651 C 2	3218 E 3	3522 D 2	3679 B 2	3933 B 2	6712 C 1		
2210 D 3	2407 D 2	2661 B 2	3219 E 3	3523 D 2	3680 B 3	3934 C 4	6713 A 1		
2211 D 4	2408 C 2	2662 B 2	3230 E 3	3524 D 2	3681 B 3	3935 B 1	6714 A 1		
2212 D 3	2409 D 2	2663 B 2	3231 E 4	3525 E 2	3701 C 1	3936 B 1	6715 A 2		
2213 E 3	2410 D 1	2664 B 2	3232 E 4	3526 E 1	3702 A 1	3937 B 1	6716 A 4		
2214 E 3	2411 D 1	2665 B 3	3240 D 4	3527 D 2	3706 B 4	3938 A 1	6717 A 2		
2215 D 3	2412 C 2	2701 A 1	3241 D 3	3540 E 1	3707 B 4	3951 B 2	6718 C 1		
2216 D 3	2413 D 1	2702 A 1	3242 D 4	3541 E 1	3708 B 4	3952 C 1	6719 A 1		
2217 D 3	2414 D 2	2706 A 2	3243 D 4	3542 D 1	3709 B 3	3953 B 1	6720 B 3		
2218 D 3	2420 D 2	2707 A 2	3244 D 4	3543 D 1	3710 B 3	3958 C 1	6721 A 1		
2219 D 4	2421 D 2	2708 A 2	3251 C 4	3544 D 1	3713 B 4	4101 C 4	6901 A 4		
2220 D 3	2423 D 2	2710 A 2	3252 C 3	3545 E 1	3714 B 4	4201 C 3	6902 B 4		
2221 E 3	2424 D 2	2715 B 3	3253 C 4	3546 D 2	3715 B 4	4202 C 3	6903 B 4		
2222 E 3	2425 C 1	2716 A 3	3256 D 4	3547 D 2	3716 B 4	4203 D 4	6904 B 2		
2223 E 3	2426 D 1	2718 A 4	3301 C 3	3548 D 1	3717 B 4	4204 C 3	6905 A 4		
2230 E 4	2427 D 1	2719 A 4	3302 B 3	3550 E 1	3718 A 3	4205 C 3	7201 D 3		
2231 E 3	2428 C 1	2721 A 2	3303 C 3	3551 E 1	3719 B 4	4206 D 3	7210 E 3		
2232 E 3	2429 C 1	2722 A 4	3304 C 3	3552 C 4	3720 B 4	4210 E 3	7211 E 3		
2233 E 4	2430 D 1	2723 A 4	3308 C 3	3553 B 4	3721 B 4	4211 E 3	7212 E 3		
2240 D 4	2431 D 1	2724 A 4	3309 C 3	3554 C 4	3722 B 4	4301 C 3	7213 E 4		
2241 D 3	2432 C 2	2725 B 4	3310 C 4	3555 B 4	3723 B 1	4302 D 3	7214 E 4		
2242 D 3	2433 C 1	2726 A 4	3311 C 4	3601 D 2	3724 B 2	4501 E 1	7222 D 3		
2243 D 3	2434 D 2	2727 A 4	3314 C 3	3603 D 2	3725 C 1	4503 E 2	7223 D 4		
2246 D 4	2435 C 1	2728 B 4	3315 C 4	3604 D 2	3726 A 2	4504 D 1	7230 E 3		
2251 C 4	2501 E 2	2729 B 4	3316 C 4	3605 E 3	3727 C 1	4505 D 1	7251 C 4		
2252 C 3	2502 E 2	2735 C 1	3317 B 4	3606 E 2	3731 C 1	4506 D 1	7252 D 4		
2253 C 4	2503 E 1	2736 D 1	3351 A 3	3607 E 2	3732 A 1	4507 D 1	7301 B 3		
2254 C 4	2504 E 2	2737 C 1	3352 A 2	3608 E 2	3733 C 1	4601 D 3	7302 C 4		
2255 C 3	2511 E 2	2738 C 1	3353 A 2	3609 D 2	3734 A 4	4602 C 3	7351 A 2		
2256 C 3	2512 E 2	2739 A 1	3354 A 2	3610 D 2	3736 C 1	4603 B 3	7352 A 3		
2257 C 3	2513 E 1	2740 A 1	3355 A 2	3612 D 2	3737 A 1	4701 B 3	7401 C 2		
2258 C 3	2514 E 2	2741 A 2	3401 D 2	3613 D 2	3738 A 2	4702 E 3	7403 D 2		
2259 C 3	2520 E 2	2742 A 4	3402 D 2	3614 D 2	3739 A 1	4703 E 3	7419 D 2		
2261 C 4	2521 E 1	2751 A 1	3403 D 1	3615 D 2	3740 A 1	4704 A 4	7420 D 1		
2262 C 4	2524 E 2	2752 A 3	3404 D 2	3616 E 3	3741 C 1	4901 B 3	7501 E 2		
2301 C 3	2525 D 2	2904 A 1	3405 C 2	3617 D 3	3742 C 1	4902 B 2	7502 E 1		
2302 C 3	2526 E 1	2905 A 2	3406 C 2	3619 D 2	3743 C 1	4907 C 2	7503 E 1		
2303 C 3	2527 D 2	2906 C 1	3417 D 2	3620 C 3	3744 A 2	4908 C 1	7535 E 1		
2304 C 3	2535 E 2	2907 C 2	3418 D 2	3621 E 2	3745 C 1	5201 D 4	7536 E 1		
2305 C 3	2536 E 1	2908 B 2	3419 D 2	3622 E 2	3746 C 1	5202 E 4	7551 B 4		
2306 C 3	2537 D 1	2909 B 1	3420 D 2	3623 E 2	3751 A 1	5203 E 4	7601 E 2		
2307 B 3	2538 D 1	2910 B 1	3421 D 2	3624 E 2	3752 A 2	5205 D 4	7602 D 2		
2308 B 3	2540 E 1	2912 B 1	3422 C 2	3625 E 2	3753 A 2	5206 D 4	7603 D 2		
2309 B 3	2541 D 1	2913 C 1	3423 D 1	3626 E 2	3754 A 2	5207 D 3	7604 E 2		

22DC588/71

FM MODUL / AM PART / PLL SYNTHESIZER

1229	A10	2104	D 9	2203	I 3	2212	H 5	2221	J10	2242	F 8	2257	K15	3105	E12	3208	J10	3219	D 7	3251	G14	4204	G19
1231	K 6	2106	C12	2204	I 3	2213	F 3	2222	J10	2243	G 7	2258	K16	3106	C13	3209	J10	3230	J 2	3252	H14	4205	G19
1232	K 7	2107	C12	2205	H 4	2214	F 3	2223	K 6	2246	G 6	2259	K16	3107	C 8	3212	F 3	3231	I 2	3253	J14	4206	K 6
1233	H 7	2108	C13	2206	H 4	2215	H 5	2230	I 2	2251	G13	2261	H14	3108	C10	3213	G 4	3232	H 2	3254	I14	4210	E 3
1234	H 9	2109	C 9	2207	H 4	2216	K 6	2231	J 2	2252	H13	2262	I17	3201	G 2	3214	G 4	3240	F10	3256	J13	4211	G 3
1235	K 6	2110	C10	2208	K 4	2217	K 7	2232	I 3	2253	F14	3101	C 8	3202	H 3	3215	F 4	3241	G 6	4101	D12	5201	G 1
1251	I18	2111	C10	2209	K 4	2218	K 7	2233	J 1	2254	G14	3102	E 9	3205	K 5	3216	E 4	3242	F 6	4201	H18	5202	G 2
2121	C 9	2201	F 2	2210	K 5	2219	G 6	2240	G 9	2255	H14	3103	D10	3206	K 7	3217	E 6	3243	F 7	4202	I17	5203	G 2
2122	C 9	2202	H 2	2211	G 5	2220	J 9	2241	G 7	2256	K14	3104	C10	3207	J 9	3218	D 7	3244	F 5	4203	H 4	5205	G 3



Pos.1008 FM Module

1: GND	12: 1,8 V
2: 3,0 V	13: 1,3 V
3: 8,5 V	14: 0,3 V / 7,8 V (AM)
4: 3,0...5,0 V (LEVELDEP.)	15: 1,0 V (87,5MHz) / 6,0 V
5: 1,9 V	(108 MHz)
6: 3,8 V	16: 8,5 V
7: 1,0...6,0 V (LEVELDEP.)	17, 18: GND
8: 1,8 V	19: 4,6 V
9: 5,0 V / LOW (SEARCH)	20: GND
10: 0 V	21: 11,0 V
11: 5,0 V / LOW (SEARCH)	22, 23: GND

Pos.6230 BAV99
(values in AM-Mode)
1: 8,0 V
2: GND
3: 4,2 V

Pos.7201 TEA6200
(values in AM-Mode)
1: 5,8 V
2: 4,0 V / 0 V (FM)
3 - 5: 8,0 V
6: 7,9 V
7: ca. 1,0 V (LEVELDEP.) / 0,0 V (FM)
8 - 10: 4,0 V / 0,0 V (FM)
11: 6,4 V / 7,6 V (FM)
12: 2,4 V / 0,0 V (FM)
13: 4,6 V / 6,3 V (FM)
14: 7,6 V / 0,2 V (FM)
15, 16: 4,7 V / 0,0 V (FM)
17: GND
18: 3,0 V / 0,0 V (FM)
19: 1,3 V / 0,6 V (FM)
20: 3,3 V / 6,9 V (FM)

Pos.7210 BC847
(values in AM-Mode)
B: 0,0 V
C: 11,6 V
E: GND

Pos.7211 BC857
(values in AM-Mode)
B: 12,0 V
C: 0,0 V
E: 12,0 V

Pos.7212 BC807
(values in AM-Mode)
B: 11,2 V
C: 11,9 V
E: 11,9 V

Pos.7222 BF513
(values in AM-Mode)
D: 5,5 V / 0,0 V (FM)
G: 0,0 V
S: 0,0 V

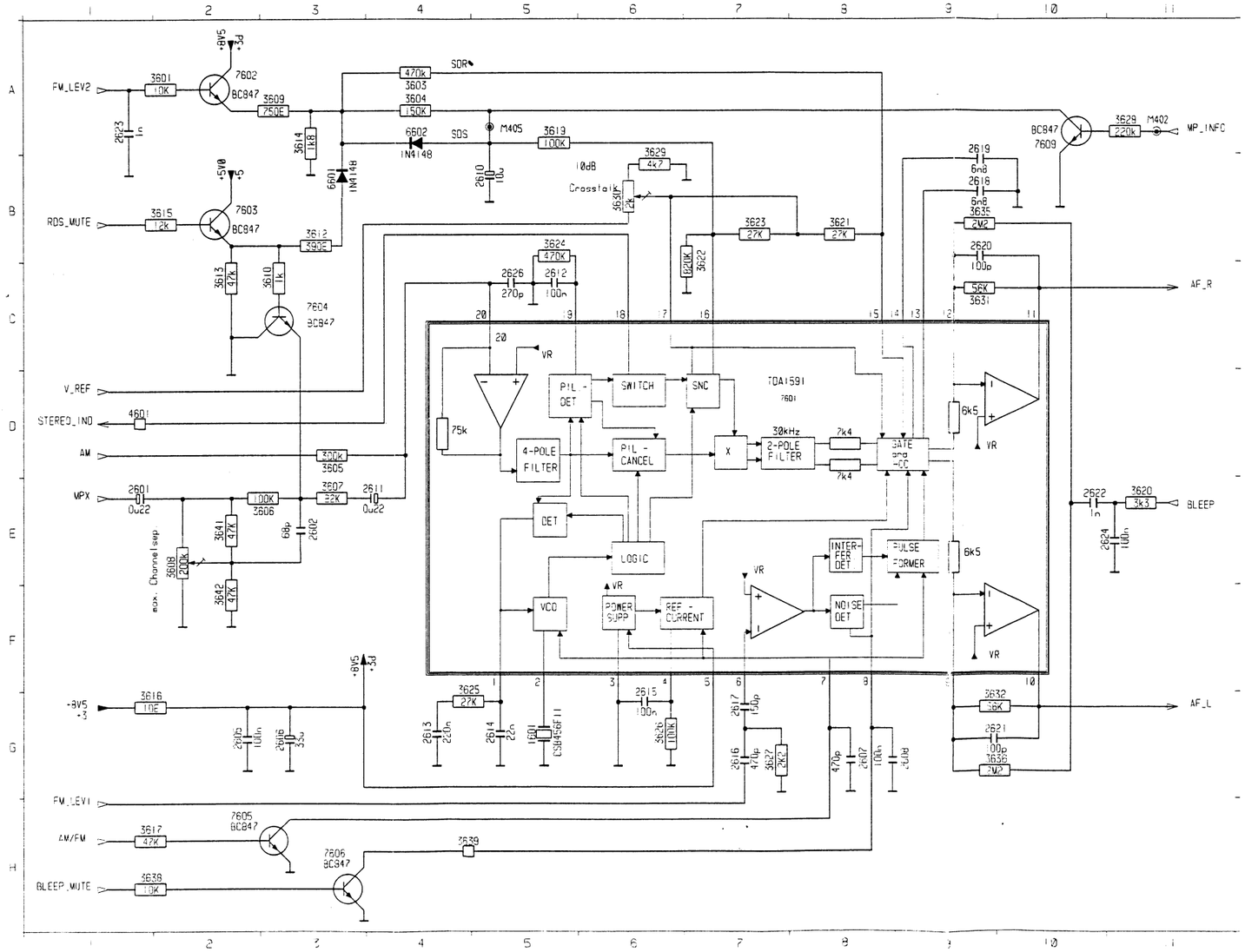
Pos.7223 BC847
(values in AM-Mode)
B: 6,8 V / 0,0 V (FM)
C: 8,0 V
E: 7,5 V / 0,0 V (FM)

Pos.7230 2SK507
(values in AM-Mode)
D: 7,8 V
G: 0,0 V

Pos.7251 TSA6057
1: 1,2 V (4 MHz)
2: 1,2 V (4 MHz)
3: 4,7 V
4: GND
5: 1,8 V
6: 1,9 V
7: 1,8 V
8: 0,8 V (FM) / 7,9 V (AM)
9: GND
10: 5,0 V (SDA)
11: 5,0 V (SCL)
12: GND
13: 1,0 V (87,5 MHz) / 6,0 V (108 MHz)
14: 2,0 V
15: 1,5 V (153 kHz) / 6,0 V (1602 kHz)
16: 8,5 V

Pos.7252 BC847
B: 0,8 V (FM) / 7,9 V (AM)
C: 8,4 V (FM)
E: 0,2 V (FM) / 7,6 V (AM)

STEREO DECODER



1601	G	5		7606	H	3	
2601	E	1		7609	A	10	
2602	E	3		M402	A	11	
2605	G	2		M405	A	5	
2606	G	3					
2607	G	9					
2609	G	9					
2610	B	5					
261	E	4					
2612	C	5					
2613	G	4					
2614	G	5					
2615	G	6					
2616	G	7					
2617	G	7					
2618	B	6					
2619	A	9					
2620	B	9					
2621	G	9					
2622	E	9					
2623	A	1					
2624	E	11					
2626	C	5					
360	A	2					
3603	A	4					
3604	A	4					
3605	D	3					
3606	E	3					
3607	E	3					
3608	E	3					
3609	A	3					
3610	C	3					
3612	B	3					
3613	C	2					
3614	A	3					
3615	B	2					
3616	G	1					
3617	H	1					
3619	A	5					
3620	E	11					
362	B	9					
3622	B	7					
3623	B	7					
3624	B	5					
3625	G	4					
3626	G	6					
3627	G	7					
3628	A	11					
3629	B	6					
3630	B	9					
363	C	9					
3632	G	9					
3635	B	9					
3636	G	9					
3638	H	1					
3639	H	4					
364	E	2					
3642	F	2					
460	D	1					
560	B	3					
6602	A	4					
7601	D	7					
7602	A	2					
7603	B	2					
7604	C	3					
7605	H	2					

Pos.7601 TDA1591
1: 4,6 V
2: 4,3 V
3: GND
4: 3,0 V
5: 8,5 V
6: 2,2 V
7: 2,2 V / 0,0 V (AM)
8: 6,2 V
9 - 14: 3,8 V
15 - 17: 3,0 V
18: 5,0 V / 0,0 V (MONO)
19, 20: 3,0 V

Pos.7602 BC847
B: 1,0...6,0 V (LEVELDEP.)
C: 8,5 V
E: 0,0...5,0 V (LEVELDEP.)

Pos.7603 BC847
B: 0,0 V
C: 5,0 V
E: 0,0 V

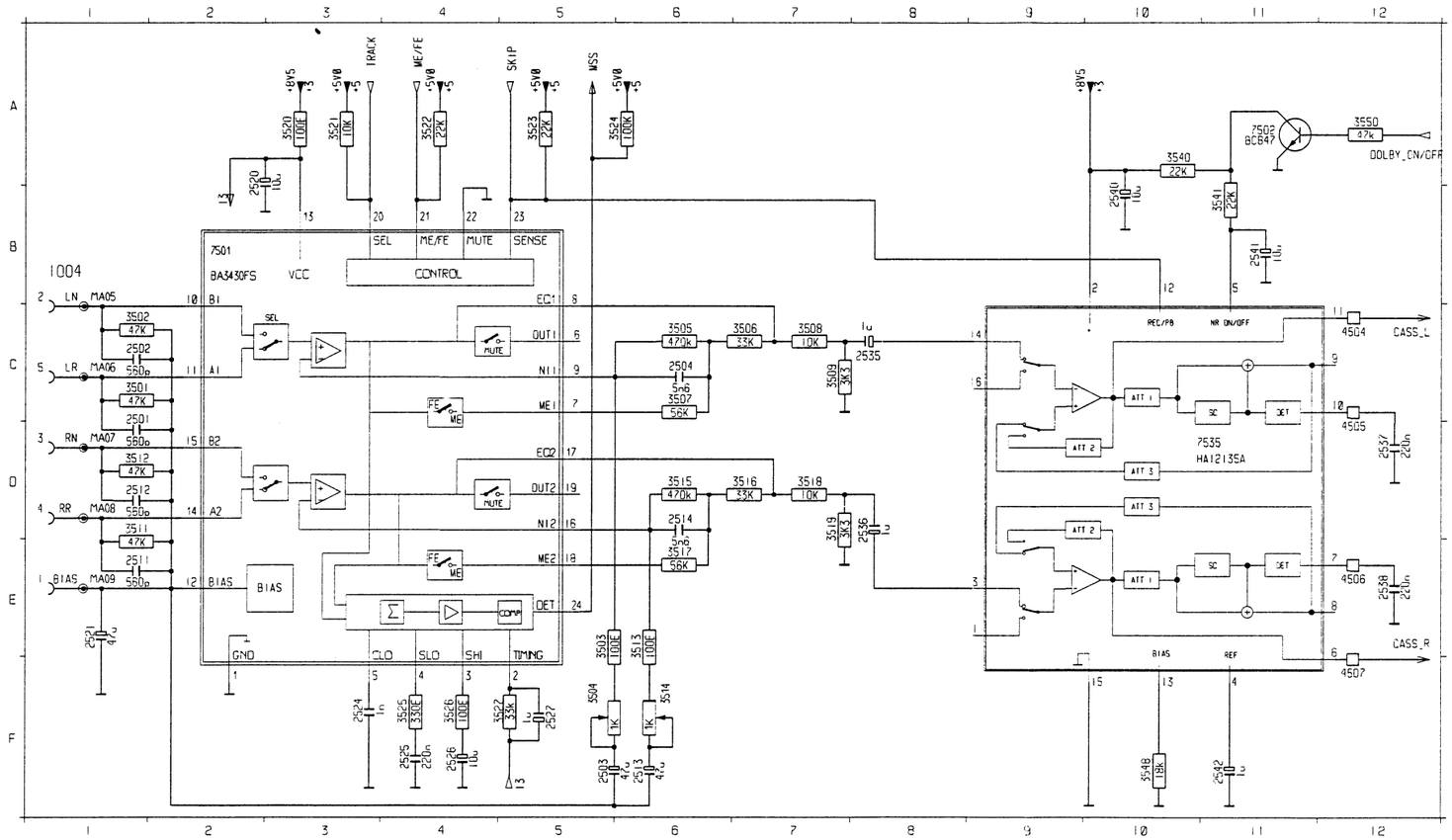
Pos.7604 BC847
B: 0,0 V
C: GND
E: 0,0 V

Pos.7605 BC847
B: 0,2 V / 0,6 V (AM)
C: 2,2 V / 0,0 V (AM)
E: GND

Pos.7606 BC847
B: 0,0 V / 0,6 V (MUTE)
C: 6,2 V / 0,0 V (MUTE)
E: GND

Pos.7609 BC847
B: 0,0 V
C: 3,2 V
E: GND

PREAMPLIFIER / DOLBY / MSS



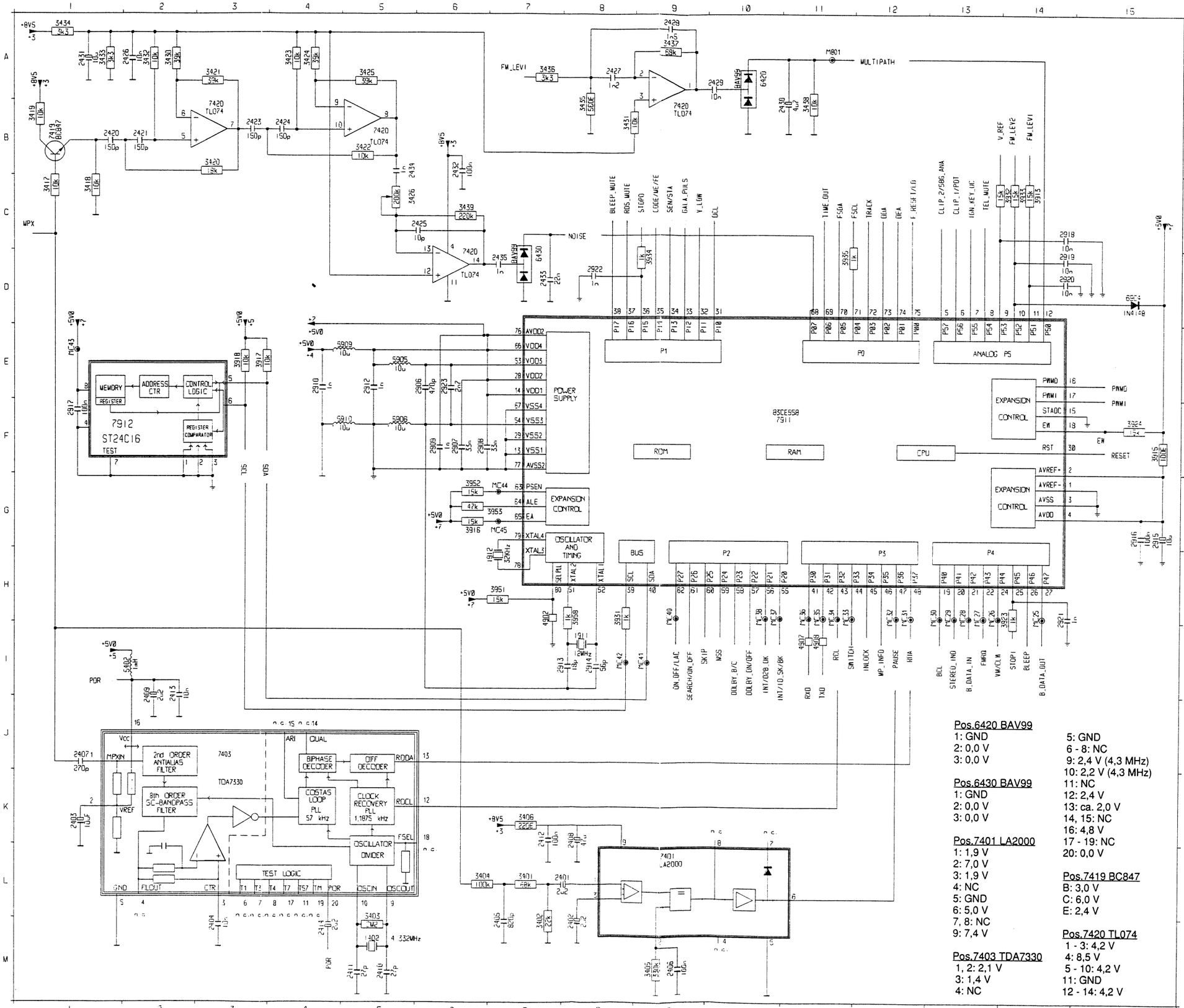
1004	B 1	4504	C 12	2524	F 3	3520	A 3
2501	D 1	4505	D 12	2525	F 4	3521	A 3
2502	C 1	4506	E 12	2526	F 4	3522	A 4
2503	F 5	4507	F 12	2527	F 5	3523	A 5
2504	C 6	7501	B 2	2535	C 8	3524	A 6
2511	E 1	7502	A 11	2536	D 8	3525	F 4
2512	D 1	7535	D 10	2537	D 12	3526	F 4
2513	F 6	MA05	B 1	2538	E 12	3527	F 5
2514	D 6	MA06	C 1	2540	B 10	3540	A 10
2520	A 2	MA07	D 1	2541	B 11	3541	B 11
2521	E 1	MA08	D 1	2542	F 11	3548	F 10
2524	F 3	MA09	E 1	3501	C 1	3550	A 12
2525	F 4			3502	C 1		
2526	F 4			3503	E 5		
2527	F 5			3504	F 5		
2535	C 8			3505	C 6		
2536	D 8			3506	C 7		
2537	D 12			3507	C 6		
2538	E 12			3508	C 7		
2540	B 10			3509	C 7		
2541	B 11			3511	D 1		
2542	F 11			3512	D 1		
3501	C 1			3513	E 6		
3502	C 1			3514	F 6		
3503	E 5			3515	D 6		
3504	F 5			3516	D 7		
3505	C 6			3517	E 6		
3506	C 7			3518	D 7		
3507	C 6			3519	D 7		
3508	C 7			3520	A 3		
3509	C 7			3521	A 3		
3511	D 1			3522	A 4		
3512	D 1			3523	A 5		
3513	E 6			3524	A 6		
3514	F 6			3525	F 4		
3515	D 6			3526	F 4		
3516	D 7			3527	F 5		
3517	E 6			3540	A 10		
3518	D 7			3541	B 11		
3519	D 7			3548	F 10		
3520	A 3			3550	A 12		

Pos.7501 BA3430FS
1: GND
2: 7,0 V
3: 3,0 V
4, 5: 3,1 V
6: NC
7 - 12: 3,1 V
13: 7,0 V
14 - 18: 3,1 V
19: NC
20: 2,5 V (NOR) / 0,0 V (REV)
21: 4,3 V (ME) / 0,0 V (FE)
22: GND
23: 0,1 V (PLAY) / 3,6 V (WIND, MSS)
24: 0,0 V / 5,0 V (NO SIGNAL ON TAPE)

Pos.7502 BC847
B: 0,6 V / 0,0 V (DOLBY ON)
C: 0,0 V / 8,4 V (DOLBY ON)
E: GND

Pos.7535 HA12135A
1: NC
2: 8,5 V
3, 4: 4,0 V
5: 0,4 V / 8,3 V (DOLBY ON)
6: 4,0 V
7: 1,3 V
8, 9: NC
10: 1,3 V
11: 4,0 V
12: 0,1 V (PLAY) / 3,6 V (WIND, MSS)
13: 0,9 V
14: 4,0 V
15: GND
16: NC

uC / RDS / NOISE / MULTIPATH



Pos.6420 BAV99
1: GND
2: 0,0 V
3: 0,0 V

Pos.6430 BAV99
1: GND
2: 0,0 V
3: 0,0 V

Pos.7401 LA2000
1: 1,9 V
2: 7,0 V
3: 1,9 V
4: NC
5: GND
6: 5,0 V
7, 8: NC
9: 7,4 V

Pos.7403 TDA7330
1, 2: 2,1 V
3: 1,4 V
4: NC
5: GND
6 - 8: NC
9: 2,4 V (4,3 MHz)
10: 2,2 V (4,3 MHz)
11: NC
12: 2,4 V
13: ca. 2,0 V
14, 15: NC
16: 4,8 V
17 - 19: NC
20: 0,0 V

Pos.7419 BC847
B: 3,0 V
C: 6,0 V
E: 2,4 V

Pos.7420 TL074
1 - 3: 4,2 V
4: 8,5 V
5 - 10: 4,2 V
11: GND
12 - 14: 4,2 V

1402	M 5	
1911	I 8	
1912	H 7	
2401	L 8	
2402	M 8	
2403	K 1	
2404	M 3	
2405	M 7	
2406	M 9	
2407	J 1	
2408	K 8	
2409	I 2	
2410	M 5	
2411	M 5	
2412	K 7	
2413	I 2	
2414	M 4	
2420	B 1	
2421	B 2	
2423	B 3	
2424	B 4	
2425	C 6	
2426	A 2	
2427	A 8	
2428	A 9	
2429	A 10	
2430	B 11	
2431	A 1	
2432	B 6	
2433	D 7	
2434	B 5	
2435	D 7	
2906	E 6	
2907	F 6	
2908	F 6	
2909	F 6	
2910	E 4	
2912	E 5	
2913	I 8	
2914	I 8	
2915	G15	
2916	G15	
2917	F 1	
2918	C14	
2919	D14	
2920	D14	
2921	H14	
2922	D 8	
2923	E 6	
3401	L 7	
3402	M 7	
3403	M 5	
3404	L 6	
3405	M 9	
3406	K 7	
3417	C 1	
3418	C 1	
3419	B 1	
3420	B 3	
3421	A 3	
3422	B 5	
3423	A 4	
3424	A 4	
3425	A 5	
3426	C 5	
3430	A 2	
3431	B 8	
3432	A 2	
3433	A 1	
3434	A 1	
3435	B 8	
3436	A 7	
3437	A 9	
3438	B 11	
3439	C 6	
3913	C14	
3915	F15	
3916	G 6	
3917	E 3	
3918	E 3	
3923	H14	
3924	F15	
3931	H 8	
3932	C14	
3933	C14	
3934	D 9	
3935	D11	
3951	H 7	
3952	G 6	
3953	G 7	
3958	H 8	
4902	H 7	
4907	I 11	
4908	I 11	
5402	I 2	
5905	E 5	
5906	F 5	
5909	E 5	
5910	F 5	
6420	A10	
6430	C 7	
6904	D15	
7401	L 9	
7403	J 3	
7419	B 1	
7420	B 9	
7420	B 3	
7420	B 5	
7420	D 6	
7911	F10	
7912	F 1	
MB01	A11	
MC25	I14	
MC26	I13	
MC27	I13	
MC28	I13	
MC29	I13	
MC30	I13	
MC31	I12	
MC32	I12	
MC33	I11	
MC34	I11	
MC35	I11	
MC36	I11	
MC37	I10	
MC38	I10	
MC40	I 9	
MC41	I 9	
MC42	I 8	
MC43	E 1	
MC44	G 7	
MC45	G 7	

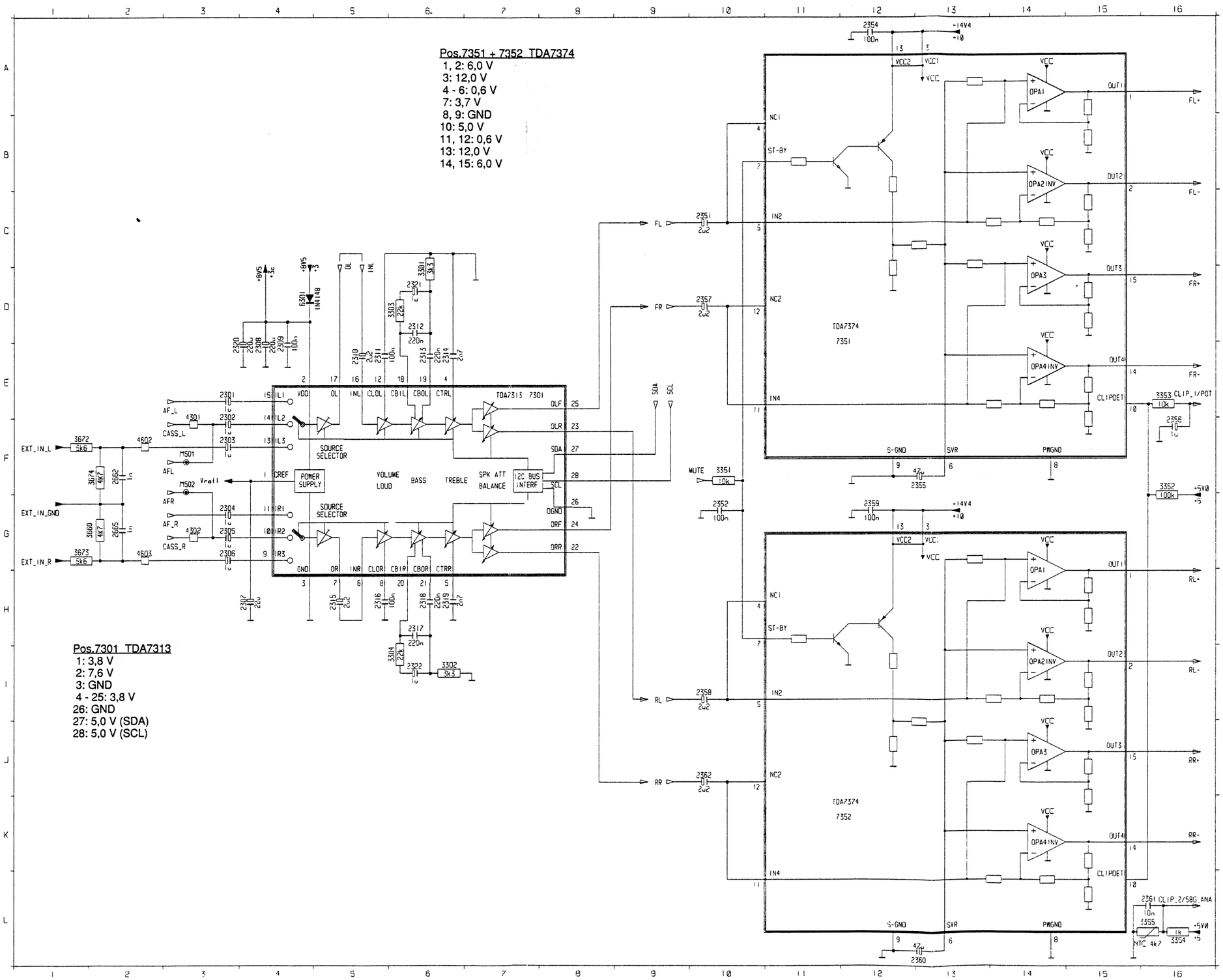
AUDIO CONTROL / AF POWER STAGE

Pos.7911 83CE558
1: GND
2: 5,0 V
3: GND
4: 5,0 V
5: 4,0 V
6: 4,9 V
7: 5,3 V
/ 0,1 V (ON WITH IGN.OFF)
8: 4,5 V / 0,6 V (PHONE)
9: 3,9 V
10: 1,0...6,0 V (LEVELDEP.)
11: 3,0...5,0 V (LEVELDEP.)
12: 0,0 V
13: GND
14: 5,0 V
15: GND
16 - 19: 5,0 V
20: 5,0 V
/ 0,0 V (MONO RECEIPTION)
21, 22: 5,0 V
23: NC
24: 0,6 V / 5,0 V (OFF)
25: 5,0 V / LOW (SEARCH)
26: 5,0 V
27: 4,4 V
28: 5,0 V
29: GND
30: 0,0 V
31, 32: 5,0 V
33: 0,0 V
34, 35: 5,0 V
36: 5,0 V / LOW (SEARCH)
37: 0,0 V / HIGH (SEARCH)
38: 0,0 V
39: 5,0 V (SCL)
40: 5,0 V (SDA)
41: 5,0 V
42: 0,0 V
43: 2,4 V
44: 0,0 V
/ 5,0 V (CASS.STANDBY)
45: 5,0 V
46: 0,0 V
47: 5,0 V
48: ca. 2,0 V
49, 50: NC
51: 2,6 V (11 MHz)
52: 2,0 V (11 MHz)
53: 5,0 V
54: 0,0 V
55, 56: 5,0 V
57: 4,3 V / 0,0 V (DOLBY ON)
58: NC
59: 0,0 V
/ 5,0 V (NO TAPE-SIGNAL)
60: 0,1 V / 3,6 V (WIND, MSS)
61: 5,0 V
/ 0,0 V (PUSH SEARCH KNOB)
62: 0,5 V / 5,0 V (OFF)
63: 5,0 V
64: 0,0 V
65, 66: 5,0 V
67: GND
68: 0,0 V
69: 5,0 V
/ 3,8 V (ON WITH IGN. OFF)
70: 5,0 V (SDA)
71: 5,0 V (SCL)
72: 2,5 V (NOR) / 0,0 V (REV)
73, 74: 5,2 V
75, 76: 5,0 V
77: GND
78, 79: NC
80: 5,0 V

Pos. 7912 ST24C16
1 - 4: GND
5: 4,8 V (SDA)
6: 4,8 V (SCL)
7: GND
8: 5,0 V

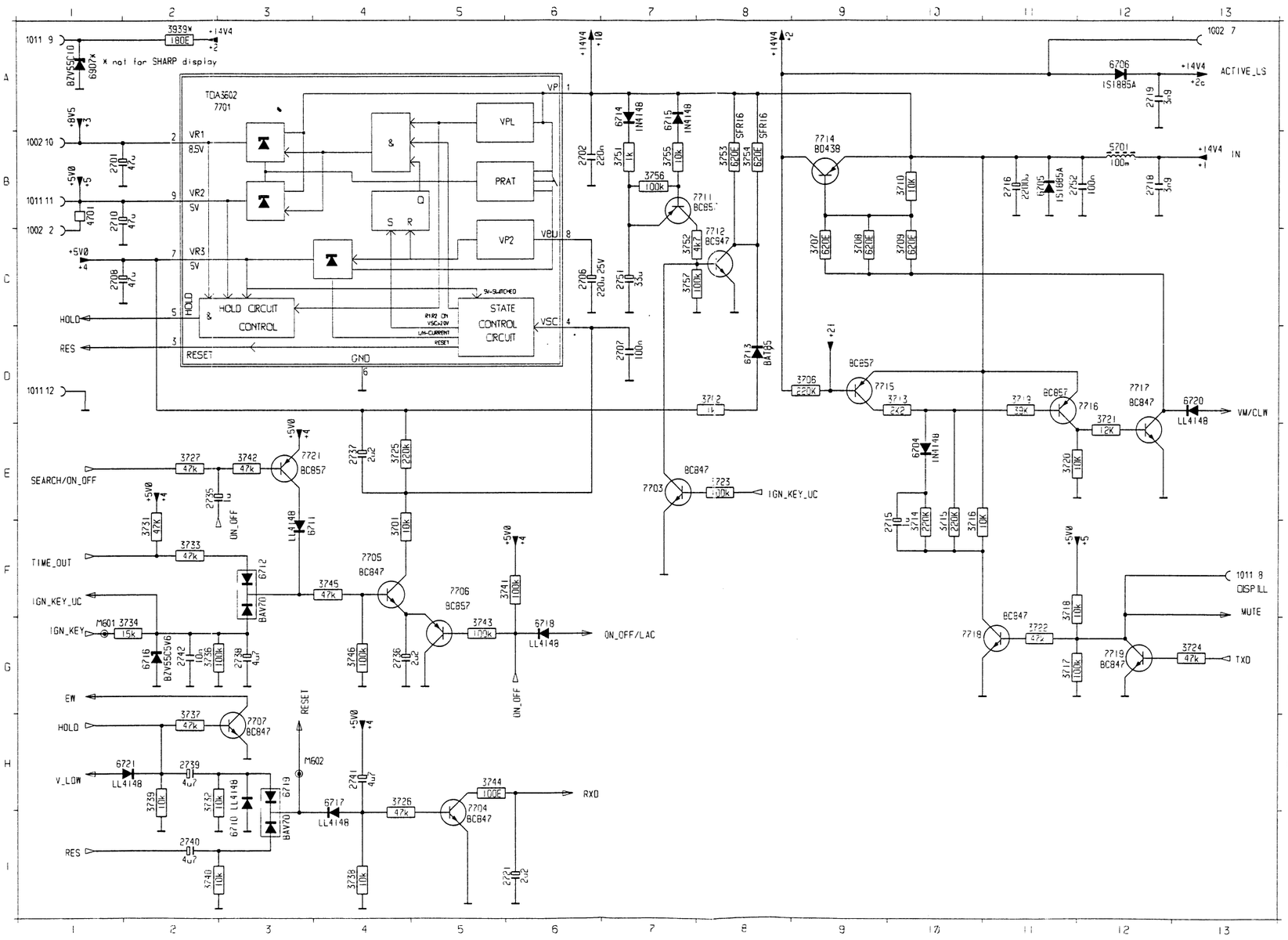
Pos.7351 + 7352 TDA7374
1, 2: 6,0 V
3: 12,0 V
4 - 6: 0,6 V
7: 3,7 V
8, 9: GND
10: 5,0 V
11, 12: 0,6 V
13: 12,0 V
14, 15: 6,0 V

Pos.7301 TDA7313
1: 3,8 V
2: 7,6 V
3: GND
4 - 25: 3,8 V
26: GND
27: 5,0 V (SDA)
28: 5,0 V (SCL)



POWER SUPPLY

1002	C 1	2706	C 6	2735	E 2	2752	B11	3714	F10	3723	E 8	3736	G 2	3745	F 4	3939x	A 2	6713	D 8	6907x	A 1	7714	B 9
1002	A13	2707	D 7	2736	G 4	3701	F 4	3715	F10	3724	G13	3737	H 2	3746	G 4	4701	B 1	6714	A 7	7701	A 2	7715	D 9
1002	B 1	2708	C 1	2737	E 4	3702	D 8	3716	F10	3725	E 4	3738	I 4	3751	B 7	5701	B12	6715	A 7	7703	E 7	7716	D12
1011	F13	2710	B 1	2738	G 3	3706	D 9	3717	G11	3726	H 4	3739	H 2	3752	C 7	6704	E10	6716	G 2	7704	I 5	7717	D12
1011	A 1	2715	F10	2739	H 2	3707	C 9	3718	F11	3727	E 2	3740	I 2	3753	B 8	6705	B11	6717	H 4	7705	F 4	7718	G10
1011	B 1	2716	B11	2740	I 2	3708	C 9	3719	D11	3731	F 2	3741	F 6	3754	B 8	6706	A12	6718	G 6	7706	F 5	7719	G12
1011	D 1	2718	B12	2741	H 4	3709	C10	3720	E11	3732	H 2	3742	E 3	3755	B 7	6710	I 3	6719	H 3	7707	H 3	7721	E 3
2701	B 1	2719	A12	2742	G 2	3710	B10	3721	D12	3733	F 2	3743	G 5	3756	B 7	6711	F 3	6720	D13	7711	B 8	M601	G 1
2702	B 6	2721	I 6	2751	C 7	3713	D10	3722	G11	3734	G 2	3744	H 5	3757	C 7	6712	F 3	6721	H 2	7712	C 8	M602	H 3



Pos.6712 BAV70
1: 5,2 V / 0,0 V (ON WITH IGN.OFF)
2: 5,0 V / 2,7 V (ON WITH IGN.OFF)
3: 4,8 V / 2,3 V (ON WITH IGN.OFF)

Pos.6719 BAV70
1: 0,0 V
2: 0,0 V
3: 0,0 V

Pos.7701 TDA3602
1: 12,0 V
2: 8,5 V
3: 5,0 V
4: 0,8 V / 5,0 V (OFF)
5: 5,0 V
6: GND
7: 5,0 V
8: 12,0 V
9: 5,0 V

Pos.7703 BC857
B: 0,6 V / 0,1 V (ON WITH IGN.OFF)
C: 0,0 V
E: GND

Pos.7704 BC857
B: 0,0 V
C: 5,0 V
E: GND

Pos.7705 BC857
B: 1,2 V
C: 0,5 V / 5,0 V (OFF)
E: 0,5 V / 2,9 V (OFF)

Pos.7706 BC847
B: 0,0 V / 5,0 V (OFF)
C: GND
E: 0,5 V / 2,9 V (OFF)

Pos.7711 BC857
B: 12,0 V
C: 0,0 V
E: 12,0 V

Pos.7712 BC847
B: 0,0 V
C: 12,0 V
E: GND

Pos.7714 BD438
B: 12,0 V
C: 12,0 V / 0,5 V (IGN.OFF)
E: 12,0 V

Pos.7715 BC857
B: 12,0 V
C: 8,6 V / 12,0 V IGN.OFF)
E: 12,0 V

Pos.7716 BC857
B: 11,6 V / 12,0 V (OFF)
C: 12,0 V / 0,0 V (OFF)
E: 12,0 V

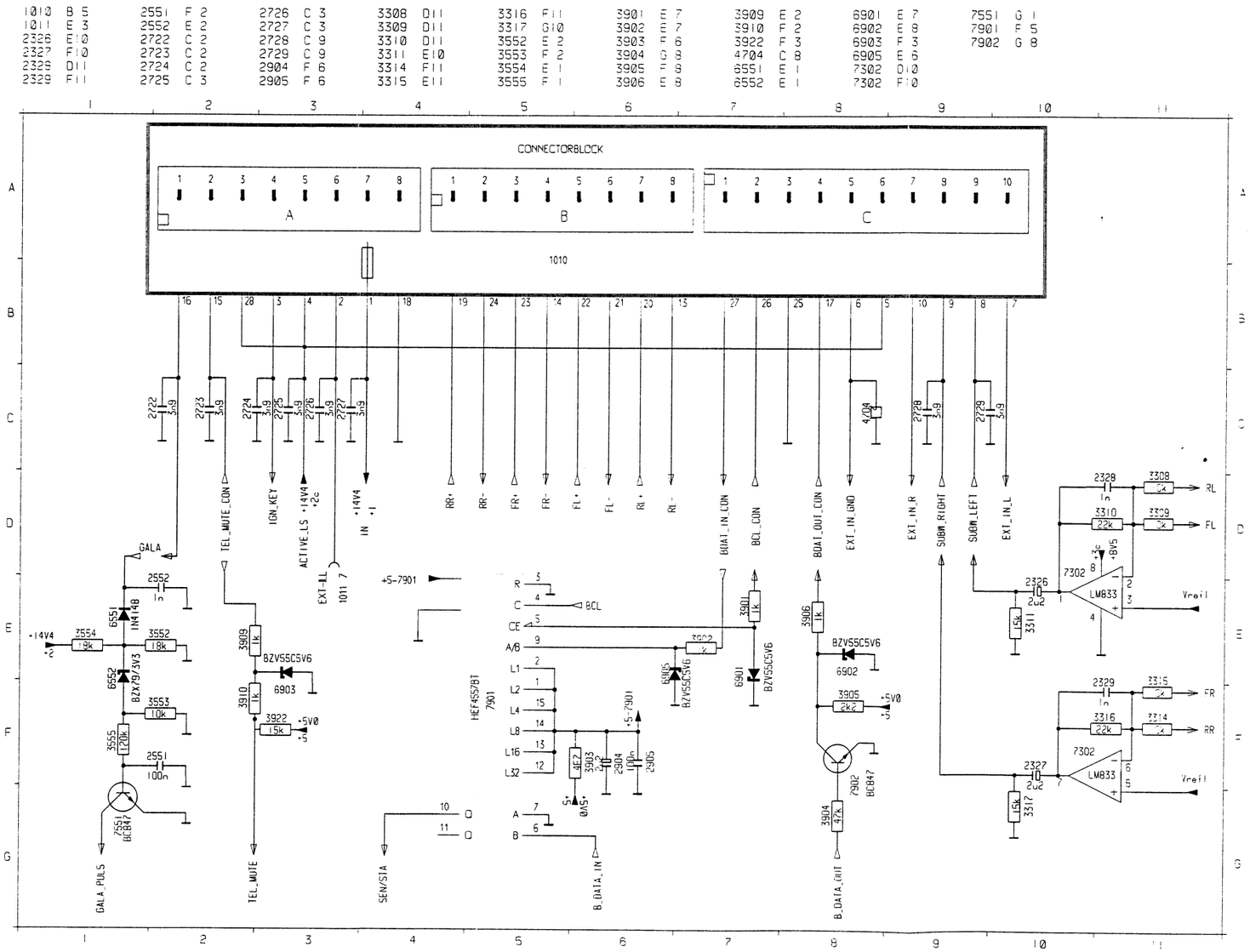
Pos.7717 BC847
B: 0,8 V
C: 0,2 V / 12,0 V (OFF)
E: GND

Pos.7718 BC847
B: 0,6 V
C: 0,0 V / 12,0 V (OFF)
E: GND

Pos.7719 BC847
B: 0,0 V / 0,6 V (OFF)
C: 4,5 V
E: GND

Pos.7721 BC857
B: 5,0 V / 4,4 V (PUSH SEARCH KNOB)
C: 0,0 V / 5,0 V (PUSH SEARCH KNOB)
E: 5,0 V

CONNECTORBLOCK / BUS MODUL / GALA / SUBWOOFER CONTROL

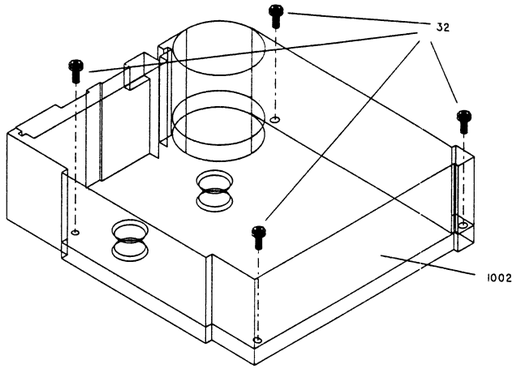


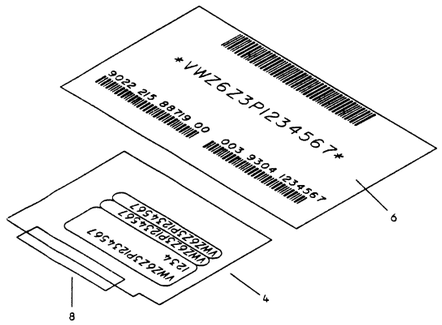
Pos.7551 BC847
B: 0,5 V
C: 0,0 V
E: GND

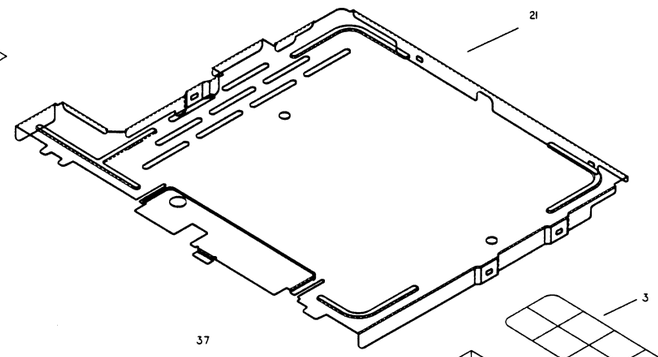
Pos.7901 HEF4557BT
(measured without CD-Changer contacted)
1, 2: 5,0 V
3: GND
4: 5,0 V
5: 0,0 V
6: 5,0 V
7, 8: GND
9: 0,0 V
10: 5,0 V
11: NC
12 - 16: 5,0 V

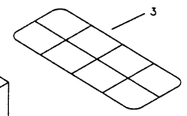
Pos.7902 BC847
B: 0,0 V
C: 0,0 V
E: GND

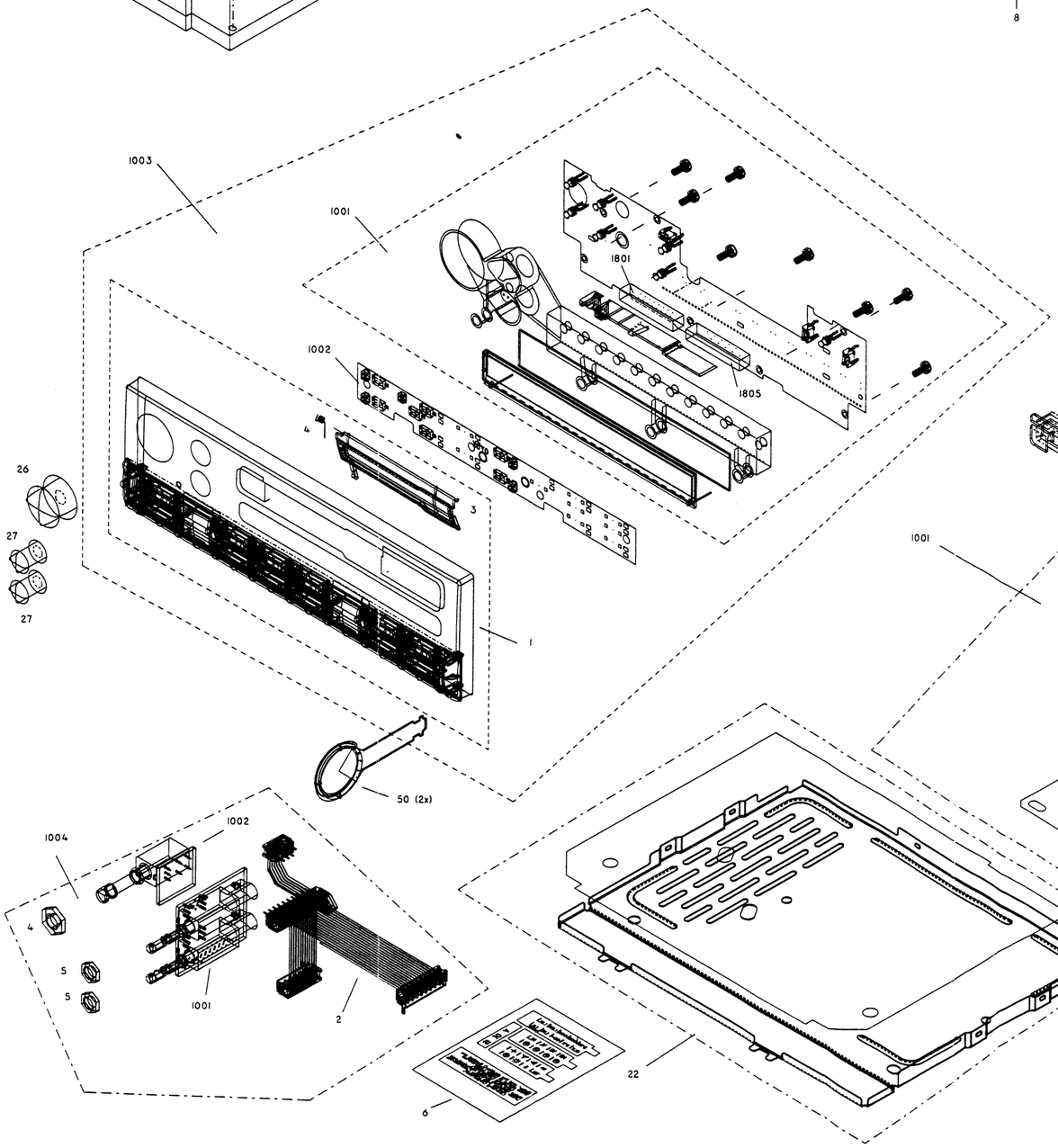
Pos.7302 LM833
1 - 3: 3,8 V
4: GND
5 - 7: 3,8 V
8: 7,6 V


32
1002


VWZ6Z3P1234567
9222 215 88710 00
003 3704 1234567
6
4
8


21


3


1003
1001
1801
1805
1002
4
3
26
27
27
1
50 (2x)
1004
1002
4
5
5
1001
2
6
22

37
20
36
31
31
25
23
38
30
1006
Indentification-no.
25
23
7352
7701
7351
1001
1010
2
3
8
5701
1002
1008
1005
1011
5212
1004
1
35
4

MECHANICAL PARTS

21	4822 423 41246	COVER GAMMA
22	4822 423 41228	COVER BOTTOM ASSY
23	4822 492 71352	SPRING CENTRE
25	4822 502 11689	M 3 X 6CSK ZNBK
26	4822 413 31746	KNOB VOLUME ASSY
27	4822 413 31776	KNOB TONE ASSY
30	4822 502 11715	M 2,5X 5PAN ZNBK
33	4822 502 11715	M 2,5X 5PAN ZNBK
36	4822 502 11715	M 2,5X 5PAN ZNBK
37	4822 502 11715	M 2,5X 5PAN ZNBK
1001-1004	4822 267 40818	TCS83S9V1 BURNDY
1001-1008	4822 210 10579	FM MODUL
1001-1010	4822 290 61187	CONNECTOR BLOCK ASSY
1001-1011	4822 267 51057	CONNECTOR 12P
1002	4822 701 13642	SCA4.4
1003-1	4822 459 50799	ORNAMENTAL PLATE
1003-1-3	4822 443 64036	CASSETTE FLAP
1003-1-4	4822 492 42481	FLAP SPRING
1003-1001	4822 214 52127	PWB LCD ASSY
1003-1001-1801	4822 267 51287	AMP0-215460-01
1003-1001-1805	4822 265 41315	CONNECTOR 10P
1003-1002	4822 214 52124	PWB SWITCH ASSY
1004-2	4822 321 62208	CABLE ASSY POTMETER
1004-1001	4822 214 52125	PWB POTI ASSY TONE
1004-1002	4822 214 52126	PWB POTI ASSY VOLUME
1005	4822 071 21003	257010.(FUSE 10A)
1006	4822 267 31702	BUSH AERIAL ASSY

How to find Codenumbers:

This exploded view is illustrated in a multi-level form. To find the correct codenumber you have to combine the position number of the needed part with the position number of the assembly in which it is in.

Only the position numbers connected to a codenumber are available as spare part.

MISCELLANEOUS

1201	4822 242 72076	QUARZ 10,7 MHZ
1202	4822 242 72076	QUARZ 10,7 MHZ
1203	4822 242 71883	SFE10,7MS318-D
1204	4822 242 71883	SFE10,7MS318-D
1251	4822 242 71874	QUARZ 4,0 MHZ
1402	4822 242 72195	QUARZ 4,332 MHZ
1601	4822 242 81117	CSB456F11
1866	4822 276 20521	SWITCH FF
1867	4822 276 20521	SWITCH FR
1868	4822 276 20521	SWICH EJECT

CAPACITORS

2101	4822 124 23256	47UF		16V
2102	5322 122 32654	22NF	10% X7R	63V
2104	4822 122 33177	10NF	20% X7R	50V
2106	4822 122 33177	10NF	20% X7R	50V
2107	5322 122 32654	22NF	10% X7R	63V
2108	4822 124 40177	47UF	20%	10V
2109	4822 122 33177	10NF	20% X7R	50V
2110	4822 122 33177	10NF	20% X7R	50V
2111	4822 122 33177	10NF	20% X7R	50V
2201	5322 122 31647	1NF	10% X7R	63V
2202	4822 122 32082	4,7PF	5%	50V
2203	5322 122 32659	33PF	5%	50V
2204	5322 122 32448	10PF	5%	50V
2205	4822 122 33216	270PF	5% NP0	50V
2206	4822 122 33216	270PF	5% NP0	50V
2208	4822 124 23282	1UF	20%	50V
2209	4822 124 23256	47UF		16V
2210	4822 122 33496	100NF	10% X7R	63V
2211	4822 122 33177	10NF	20% X7R	50V
2212	4822 122 32916	220NF	10% X7R	63V
2213	4822 122 33177	10NF	20% X7R	50V
2214	4822 122 33496	100NF	10% X7R	63V
2215	4822 124 23279	22UF	20%	16V
2217	4822 122 33496	100NF	10% X7R	63V
2218	4822 124 22646	47UF	20%	16V
2219	4822 121 51354	1NF	10%	50V
2220	5322 126 10223	4,7NF	10% X7R	63V
2221	4822 122 32627	2.7NF	10% X7R	50V
2222	4822 122 32542	47NF	10% X7R	63V
2223	5322 122 32658	22PF	5%	50V
2230	4822 122 33178	1NF	20% X7R	50V
2231	4822 122 32082	4,7PF	5%	50V
2232	5322 122 32448	10PF	5%	50V
2233	5322 122 32658	22PF	5%	50V
2240	5322 122 32654	22NF	10% X7R	63V
2241	4822 122 33177	10NF	20% X7R	50V
2242	4822 122 32082	4,7PF	5%	50V
2243	4822 122 33216	270PF	5% NP0	50V
2246	4822 122 33177	10NF	20% X7R	50V
2251	4822 122 32566	3,9NF	10% X7R	63V
2252	4822 122 33177	10NF	20% X7R	50V
2253	5322 122 32654	22NF	10% X7R	63V
2254	4822 122 33608	39NF	10% X7R	63V
2255	4822 122 32916	220NF	10% X7R	63V
2256	5322 122 32654	22NF	10% X7R	63V
2257	4822 124 23281	33UF	20%	16V
2258	4822 122 33177	10NF	20% X7R	50V
2259	4822 124 23255	100UF		16V
2261	4822 122 32916	220NF	10% X7R	63V

CAPACITORS

2301	4822 124 23282	1UF	20%	50V
2302	4822 124 23282	1UF	20%	50V
2303	4822 124 23282	1UF	20%	50V
2304	4822 124 23282	1UF	20%	50V
2305	4822 124 23282	1UF	20%	50V
2306	4822 124 23282	1UF	20%	50V
2307	4822 124 80453	100UF	20%	10V
2309	4822 122 33496	100NF	10% X7R	63V
2310	4822 124 23504	2.2UF	20%	50V
2311	4822 122 33496	100NF	10% X7R	63V
2312	4822 122 32916	220NF	10% X7R	63V
2313	4822 122 32542	47NF	10% X7R	63V
2314	4822 122 32627	2.7NF	10% X7R	50V
2315	4822 124 23504	2.2UF	20%	50V
2316	4822 122 33496	100NF	10% X7R	63V
2317	4822 122 32916	220NF	10% X7R	63V
2318	4822 122 32542	47NF	10% X7R	63V
2319	4822 122 32627	2.7NF	10% X7R	50V
2320	4822 124 23582	220UF		10V
2326	4822 124 23504	2.2UF	20%	50V
2327	4822 124 23504	2.2UF	20%	50V
2328	4822 122 33178	1NF	20% X7R	50V
2329	4822 122 33178	1NF	20% X7R	50V
2351	4822 124 23504	2.2UF	20%	50V
2352	4822 122 33496	100NF	10% X7R	63V
2354	4822 122 33496	100NF	10% X7R	63V
2355	4822 124 80724	47UF	20%	10V
2356	4822 124 80725	1UF	20%	50V
2357	4822 124 23504	2.2UF	20%	50V
2358	4822 124 23504	2.2UF	20%	50V
2359	4822 122 33496	100NF	10% X7R	63V
2360	4822 124 80724	47UF	20%	10V
2361	4822 122 33177	10NF	20% X7R	50V
2362	4822 124 23504	2.2UF	20%	50V
2401	4822 124 23504	2.2UF	20%	50V
2402	4822 124 23504	2.2UF	20%	50V
2403	4822 124 41017	10UF		16V
2404	4822 122 33177	10NF	20% X7R	50V
2405	4822 122 33218	820PF	10% X7R	63V
2406	4822 122 33496	100NF	10% X7R	63V
2407	4822 122 33216	270PF	5% NP0	50V
2408	4822 124 22646	47UF	20%	16V
2409	4822 124 23504	2.2UF	20%	50V
2410	5322 122 31946	27PF	10%	50V
2411	5322 122 31946	27PF	10%	50V
2412	4822 122 33496	100NF	10% X7R	63V
2413	4822 122 33177	10NF	20% X7R	50V
2414	4822 124 23504	2.2UF	20%	50V
2420	5322 122 33538	150PF	2% NP0	63V
2421	5322 122 33538	150PF	2% NP0	63V
2423	5322 122 33538	150PF	2% NP0	63V
2424	5322 122 33538	150PF	2% NP0	63V
2425	5322 122 32448	10PF	5%	50V
2426	4822 122 33177	10NF	20% X7R	50V
2427	4822 122 32614	1.2NF	10% X7R	50V
2428	5322 122 31865	1.5NF	10% X7R	63V
2429	4822 122 33177	10NF	20% X7R	50V
2430	4822 124 23401	4.7UF	20%	25V
2431	4822 124 41017	10UF		16V
2432	4822 122 33496	100NF	10% X7R	63V
2433	5322 122 32654	22NF	10% X7R	63V

CAPACITORS

2434	4822 122 33178	1NF	20%	X7R	50V
2435	4822 122 33178	1NF	20%	X7R	50V
2501	4822 122 33173	560PF	10%	X7R	50V
2502	4822 122 33173	560PF	10%	X7R	50V
2503	4822 124 40177	47UF	20%		10V
2504	4822 122 32646	5,6NF	10%	X7R	50V
2511	4822 122 33173	560PF	10%	X7R	50V
2512	4822 122 33173	560PF	10%	X7R	50V
2513	4822 124 40177	47UF	20%		10V
2514	4822 122 32646	5,6NF	10%	X7R	50V
2520	4822 124 41017	10UF			16V
2521	4822 124 40177	47UF	20%		10V
2524	4822 122 33178	1NF	20%	X7R	50V
2525	4822 122 32916	220NF	10%	X7R	63V
2526	4822 124 41017	10UF			16V
2527	4822 124 23282	1UF	20%		50V
2535	4822 124 23282	1UF	20%		50V
2536	4822 124 23282	1UF	20%		50V
2537	4822 126 12106	220NF	5%		
2538	4822 126 12106	220NF	5%		
2540	4822 124 41017	10UF			16V
2541	4822 124 41017	10UF			16V
2542	4822 124 23282	1UF	20%		50V
2551	4822 122 33496	100NF	10%	X7R	63V
2601	4822 124 23282	1UF	20%		50V
2602	4822 122 33514	68PF	5%	NP0	50V
2605	4822 122 33496	100NF	10%	X7R	63V
2606	4822 124 23281	33UF	20%		16V
2607	5322 122 32268	470PF	10%		50V
2608	4822 122 33496	100NF	10%	X7R	63V
2610	4822 124 41017	10UF			16V
2611	4822 124 23282	1UF	20%		50V
2612	4822 122 33496	100NF	10%	X7R	63V
2613	4822 122 32916	220NF	10%	X7R	63V
2614	5322 122 32654	22NF	10%	X7R	63V
2615	4822 122 33496	100NF	10%	X7R	63V
2616	5322 122 32268	470PF	10%		50V
2617	5322 122 33538	150PF	2%	NP0	63V
2618	5322 122 31866	6,8NF	10%	X7R	63V
2619	5322 122 31866	6,8NF	10%	X7R	63V
2620	5322 122 32531	100PF	5%	NP0	50V
2621	5322 122 32531	100PF	5%	NP0	50V
2623	4822 122 33178	1NF	20%	X7R	50V
2626	4822 122 33216	270PF	5%	NP0	50V
2662	4822 122 33178	1NF	20%	X7R	50V
2665	4822 122 33178	1NF	20%	X7R	50V
2701	4822 124 80724	47UF	20%		10V
2702	4822 122 32916	220NF	10%	X7R	63V
2706	4822 124 41097	220UF	20%		16V
2707	4822 122 33496	100NF	10%	X7R	63V
2708	4822 124 80724	47UF	20%		10V
2710	4822 124 80724	47UF	20%		10V
2715	4822 124 23282	1UF	20%		50V
2718	4822 122 32566	3,9NF	10%	X7R	63V
2719	4822 122 32566	3,9NF	10%	X7R	63V
2721	4822 124 80726	2.2UF	20%		50V
2722	4822 122 32566	3,9NF	10%	X7R	63V
2723	4822 122 32566	3,9NF	10%	X7R	63V
2724	4822 122 32566	3,9NF	10%	X7R	63V
2725	4822 122 32566	3,9NF	10%	X7R	63V
2726	4822 122 32566	3,9NF	10%	X7R	63V

CAPACITORS

2727	4822 122 32566	3,9NF	10%	X7R	63V
2728	4822 122 32566	3,9NF	10%	X7R	63V
2729	4822 122 32566	3,9NF	10%	X7R	63V
2735	4822 124 23282	1UF	20%		50V
2736	4822 124 23504	2.2UF	20%		50V
2737	4822 124 23504	2.2UF	20%		50V
2738	4822 124 23401	4.7UF	20%		25V
2739	4822 124 23401	4.7UF	20%		25V
2740	4822 124 23401	4.7UF	20%		25V
2741	4822 124 80727	4.7UF	20%		25V
2742	4822 122 33177	10NF	20%	X7R	50V
2751	4822 124 23281	33UF	20%		16V
2752	4822 122 33496	100NF	10%	X7R	63V
2801	5322 122 33869	15PF	5%	NP0	63V
2802	5322 122 33869	15PF	5%	NP0	63V
2803	4822 122 33496	100NF	10%	X7R	63V
2804	4822 122 33496	100NF	10%	X7R	63V
2805	4822 122 33496	100NF	10%	X7R	63V
2806	4822 122 33496	100NF	10%	X7R	63V
2807	4822 122 33496	100NF	10%	X7R	63V
2808	4822 122 32566	3,9NF	10%	X7R	63V
2809	4822 122 32566	3,9NF	10%	X7R	63V
2810	4822 122 32566	3,9NF	10%	X7R	63V
2811	4822 122 32566	3,9NF	10%	X7R	63V
2812	4822 122 32566	3,9NF	10%	X7R	63V
2904	4822 124 23504	2.2UF	20%		50V
2905	4822 122 33496	100NF	10%	X7R	63V
2906	5322 122 32268	470PF	10%		50V
2907	4822 122 33342	33NF	10%	X7R	63V
2908	4822 122 33342	33NF	10%	X7R	63V
2909	4822 122 33178	1NF	20%	X7R	50V
2910	4822 122 33178	1NF	20%	X7R	50V
2912	4822 122 33178	1NF	20%	X7R	50V
2913	5322 122 32965	18PF	5%	NPO	50V
2914	5322 122 32661	56PF	5%		50V
2915	4822 124 41017	10UF			16V
2916	4822 122 33496	100NF	10%	X7R	63V
2917	4822 122 33496	100NF	10%	X7R	63V
2918	4822 122 33177	10NF	20%	X7R	50V
2919	4822 122 33177	10NF	20%	X7R	50V
2920	4822 122 33177	10NF	20%	X7R	50V
2921	4822 122 33178	1NF	20%	X7R	50V
2922	4822 122 33178	1NF	20%	X7R	50V
2923	4822 122 32627	2.7NF	10%	X7R	50V
2925	4822 122 32891	68NF	10%	X7R	63V
2926	4822 124 80264	1,5UF	20%		50V

RESISTORS

3101	4822 051 20478	4R70	5%		0,1W
3102	4822 051 20102	1K00	5%		0,1W
3103	4822 051 20221	220R00	5%		0,1W
3105	4822 100 11163	100K	30%	LIN	0,1W
3106	4822 051 20478	4R70	5%		0,1W
3107	4822 051 20273	27K00	5%		0,1W
3201	4822 051 20561	560R00	5%		0,1W
3202	4822 051 20471	470R00	5%		0,1W
3205	4822 051 20102	1K00	5%		0,1W
3206	4822 051 20102	1K00	5%		0,1W
3207	4822 051 20153	15K00	5%		0,1W
3208	4822 051 20333	33K00	5%		0,1W
3212	4822 051 20472	4K70	5%		0,1W

RESISTORS

3215	4822 051 20103	10K00 5%	0,1W
3216	4822 051 20104	100K00 5%	0,1W
3217	4822 051 20103	10K00 5%	0,1W
3218	4822 051 20103	10K00 5%	0,1W
3219	4822 051 20224	220K00 5%	0,1W
3230	4822 051 20224	220K00 5%	0,1W
3231	4822 051 20152	1K50 5%	0,1W
3232	4822 051 20104	100K00 5%	0,1W
3240	4822 051 20472	4K70 5%	0,1W
3241	4822 051 20102	1K00 5%	0,1W
3242	4822 051 20229	22R00 5%	0,1W
3243	4822 051 20101	100R00 5%	0,1W
3244	4822 051 20102	1K00 5%	0,1W
3251	4822 051 20103	10K00 5%	0,1W
3252	4822 051 20103	10K00 5%	0,1W
3253	4822 051 20472	4K70 5%	0,1W
3256	4822 051 20102	1K00 5%	0,1W
3301	4822 051 20153	15K00 5%	0,1W
3302	4822 051 20153	15K00 5%	0,1W
3308	4822 051 20103	10K00 5%	0,1W
3309	4822 051 20103	10K00 5%	0,1W
3310	4822 051 20223	22K00 5%	0,1W
3311	4822 051 20153	15K00 5%	0,1W
3314	4822 051 20103	10K00 5%	0,1W
3315	4822 051 20103	10K00 5%	0,1W
3316	4822 051 20223	22K00 5%	0,1W
3317	4822 051 20153	15K00 5%	0,1W
3351	4822 051 20103	10K00 5%	0,1W
3352	4822 051 20104	100K00 5%	0,1W
3353	4822 051 20103	10K00 5%	0,1W
3354	4822 051 20102	1K00 5%	0,1W
3355	4822 116 30426	4K7 3%	0,1W
3401	4822 051 20683	68K00 5%	0,1W
3402	4822 051 20223	22K00 5%	0,1W
3403	4822 051 20225	2M20 5%	0,1W
3404	4822 051 20104	100K00 5%	0,1W
3405	4822 051 20334	330K00 5%	0,1W
3406	4822 051 20221	220R00 5%	0,1W
3417	4822 051 20103	10K00 5%	0,1W
3418	4822 051 20103	10K00 5%	0,1W
3419	4822 051 20103	10K00 5%	0,1W
3420	4822 051 20183	18K00 5%	0,1W
3421	4822 051 20393	39K00 5%	0,1W
3422	4822 051 20103	10K00 5%	0,1W
3423	4822 051 20103	10K00 5%	0,1W
3424	4822 051 20393	39K00 5%	0,1W
3425	4822 051 20393	39K00 5%	0,1W
3426	4822 100 12071	EVNDXAA03B25	
3430	4822 051 20393	39K00 5%	0,1W
3431	4822 051 20103	10K00 5%	0,1W
3432	4822 051 20103	10K00 5%	0,1W
3433	4822 051 20332	3K30 5%	0,1W
3434	4822 051 20332	3K30 5%	0,1W
3435	4822 051 20561	560R00 5%	0,1W
3436	4822 051 20332	3K30 5%	0,1W
3437	4822 051 20683	68K00 5%	0,1W
3438	4822 051 20103	10K00 5%	0,1W
3439	4822 051 20224	220K00 5%	0,1W
3501	4822 051 20473	47K00 5%	0,1W
3502	4822 051 20473	47K00 5%	0,1W
3503	4822 051 20101	100R00 5%	0,1W

RESISTORS

3504	4822 100 11681	1K 30%	0,1W
3505	4822 051 20474	470K00 5%	0,1W
3506	4822 051 20333	33K00 5%	0,1W
3507	4822 051 20563	56K00 5%	0,1W
3508	4822 051 20103	10K00 5%	0,1W
3509	4822 051 20332	3K30 5%	0,1W
3511	4822 051 20473	47K00 5%	0,1W
3512	4822 051 20473	47K00 5%	0,1W
3513	4822 051 20101	100R00 5%	0,1W
3514	4822 100 11681	1K 30%	0,1W
3515	4822 051 20474	470K00 5%	0,1W
3516	4822 051 20333	33K00 5%	0,1W
3517	4822 051 20563	56K00 5%	0,1W
3518	4822 051 20103	10K00 5%	0,1W
3519	4822 051 20332	3K30 5%	0,1W
3520	4822 051 20101	100R00 5%	0,1W
3521	4822 051 20103	10K00 5%	0,1W
3522	4822 051 20223	22K00 5%	0,1W
3523	4822 051 20223	22K00 5%	0,1W
3524	4822 051 20104	100K00 5%	0,1W
3525	4822 051 20331	330R00 5%	0,1W
3526	4822 051 20101	100R00 5%	0,1W
3527	4822 051 20333	33K00 5%	0,1W
3540	4822 051 20223	22K00 5%	0,1W
3541	4822 051 20223	22K00 5%	0,1W
3548	4822 051 10183	18K00 2%	0,25W
3550	4822 051 20473	47K00 5%	0,1W
3552	4822 051 20183	18K00 5%	0,1W
3553	4822 051 20103	10K00 5%	0,1W
3554	4822 051 20183	18K00 5%	0,1W
3555	4822 051 20124	120K00 5%	0,1W
3601	4822 051 20103	10K00 5%	0,1W
3603	4822 051 20474	470K00 5%	0,1W
3604	4822 051 20154	150K00 5%	0,1W
3605	4822 051 20304	300K00 5%	0,1W
3606	4822 051 20104	100K00 5%	0,1W
3607	4822 051 20823	82K00 5%	0,1W
3608	4822 100 12071	EVNDXAA03B25	
3610	4822 051 20102	1K00 5%	0,1W
3612	4822 051 20391	390R00 5%	0,1W
3613	4822 051 20473	47K00 5%	0,1W
3614	4822 051 20182	1K80 5%	0,1W
3615	4822 051 20123	12K00 5%	0,1W
3616	4822 051 20109	10R00 5%	0,1W
3617	4822 051 20473	47K00 5%	0,1W
3619	4822 051 20104	100K00 5%	0,1W
3621	4822 051 20273	27K00 5%	0,1W
3622	4822 051 20824	820K00 5%	0,1W
3623	4822 051 20273	27K00 5%	0,1W
3624	4822 051 20474	470K00 5%	0,1W
3625	4822 051 20273	27K00 5%	0,1W
3626	4822 051 20104	100K00 5%	0,1W
3627	4822 051 20222	2K20 5%	0,1W
3628	4822 051 20224	220K00 5%	0,1W
3629	4822 051 20472	4K70 5%	0,1W
3630	4822 100 11683	2K 30%LIN	0,2W
3631	4822 051 20563	56K00 5%	0,1W
3632	4822 051 20563	56K00 5%	0,1W
3635	4822 051 20225	2M20 5%	0,1W
3636	4822 051 20225	2M20 5%	0,1W
3638	4822 051 20103	10K00 5%	0,1W

RESISTORS

3639	4822 051 20008	0R0		JUMP(0805)	
3641	4822 051 20473	47K00	5%	0,1W	
3642	4822 051 20473	47K00	5%	0,1W	
3660	4822 051 20472	4K70	5%	0,1W	
3672	4822 051 20562	5K60	5%	0,1W	
3673	4822 051 20562	5K60	5%	0,1W	
3674	4822 051 20472	4K70	5%	0,1W	
3701	4822 051 20103	10K00	5%	0,1W	
3702	4822 051 20102	1K00	5%	0,1W	
3706	4822 051 20224	220K00	5%	0,1W	
3707	4822 116 52227	620E	5%	0,5W	
3708	4822 116 52227	620E	5%	0,5W	
3709	4822 116 52227	620E	5%	0,5W	
3710	4822 051 20103	10K00	5%	0,1W	
3713	4822 051 20222	2K20	5%	0,1W	
3714	4822 051 20224	220K00	5%	0,1W	
3715	4822 051 20224	220K00	5%	0,1W	
3716	4822 051 20103	10K00	5%	0,1W	
3717	4822 051 20104	100K00	5%	0,1W	
3718	4822 051 20102	1K00	5%	0,1W	
3719	4822 051 20393	39K00	5%	0,1W	
3720	4822 051 20103	10K00	5%	0,1W	
3721	4822 051 20123	12K00	5%	0,1W	
3722	4822 051 20473	47K00	5%	0,1W	
3723	4822 051 20104	100K00	5%	0,1W	
3724	4822 051 20473	47K00	5%	0,1W	
3725	4822 051 20224	220K00	5%	0,1W	
3726	4822 051 20473	47K00	5%	0,1W	
3727	4822 051 20473	47K00	5%	0,1W	
3731	4822 051 20473	47K00	5%	0,1W	
3732	4822 051 20103	10K00	5%	0,1W	
3733	4822 051 20473	47K00	5%	0,1W	
3734	4822 051 20153	15K00	5%	0,1W	
3736	4822 051 20104	100K00	5%	0,1W	
3737	4822 051 20473	47K00	5%	0,1W	
3738	4822 051 20103	10K00	5%	0,1W	
3739	4822 051 20103	10K00	5%	0,1W	
3740	4822 051 20103	10K00	5%	0,1W	
3741	4822 051 20104	100K00	5%	0,1W	
3742	4822 051 20473	47K00	5%	0,1W	
3743	4822 051 20104	100K00	5%	0,1W	
3744	4822 051 20101	100R00	5%	0,1W	
3745	4822 051 20473	47K00	5%	0,1W	
3746	4822 051 20104	100K00	5%	0,1W	
3751	4822 051 20102	1K00	5%	0,1W	
3752	4822 051 20472	4K70	5%	0,1W	
3753	4822 116 52227	620E	5%	0,5W	
3754	4822 116 52227	620E	5%	0,5W	
3755	4822 051 20103	10K00	5%	0,1W	
3756	4822 051 20104	100K00	5%	0,1W	
3757	4822 051 20104	100K00	5%	0,1W	
3801	4822 116 30423	10K	20%	NTC	
3802	4822 051 20222	2K20	5%	0,1W	
3803	4822 051 20103	10K00	5%	0,1W	
3804	4822 051 20103	10K00	5%	0,1W	
3805	4822 051 20103	10K00	5%	0,1W	
3806	4822 051 20103	10K00	5%	0,1W	
3807	4822 051 20103	10K00	5%	0,1W	
3808	4822 051 20153	15K00	5%	0,1W	
3809	4822 051 20153	15K00	5%	0,1W	
3810	4822 051 20153	15K00	5%	0,1W	

RESISTORS

3811	4822 051 20153	15K00	5%	0,1W	
3812	4822 051 20152	1K50	5%	0,1W	
3813	4822 051 20152	1K50	5%	0,1W	
3814	4822 051 20152	1K50	5%	0,1W	
3816	4822 051 20153	15K00	5%	0,1W	
3817	4822 051 20102	1K00	5%	0,1W	
3818	4822 051 20152	1K50	5%	0,1W	
3819	4822 051 20153	15K00	5%	0,1W	
3820	4822 051 20103	10K00	5%	0,1W	
3821	4822 051 20562	5K60	5%	0,1W	
3822	4822 051 20152	1K50	5%	0,1W	
3823	4822 051 20152	1K50	5%	0,1W	
3824	4822 051 20152	1K50	5%	0,1W	
3827	4822 051 20102	1K00	5%	0,1W	
3828	4822 051 20152	1K50	5%	0,1W	
3851	4822 051 20271	270R00	5%	0,1W	
3852	4822 051 20271	270R00	5%	0,1W	
3853	4822 051 20271	270R00	5%	0,1W	
3901	4822 051 20102	1K00	5%	0,1W	
3902	4822 051 20102	1K00	5%	0,1W	
3903	4822 051 20478	4R70	5%	0,1W	
3904	4822 051 20473	47K00	5%	0,1W	
3905	4822 051 20222	2K20	5%	0,1W	
3906	4822 051 20102	1K00	5%	0,1W	
3908	4822 051 20224	220K00	5%	0,1W	
3909	4822 051 20102	1K00	5%	0,1W	
3910	4822 051 20102	1K00	5%	0,1W	
3911	4822 051 20473	47K00	5%	0,1W	
3912	4822 051 20224	220K00	5%	0,1W	
3913	4822 051 20153	15K00	5%	0,1W	
3915	4822 051 20101	100R00	5%	0,1W	
3916	4822 051 20153	15K00	5%	0,1W	
3917	4822 051 20103	10K00	5%	0,1W	
3918	4822 051 20103	10K00	5%	0,1W	
3919	4822 051 20153	15K00	5%	0,1W	
3920	4822 051 20153	15K00	5%	0,1W	
3921	4822 051 20153	15K00	5%	0,1W	
3922	4822 051 20153	15K00	5%	0,1W	
3923	4822 051 20102	1K00	5%	0,1W	
3924	4822 051 20153	15K00	5%	0,1W	
3925	4822 051 20822	8K20	5%	0,1W	
3927	4822 051 20225	2M20	5%	0,1W	
3928	4822 051 20822	8K20	5%	0,1W	
3929	4822 051 20221	220R00	5%	0,1W	
3930	4822 051 20103	10K00	5%	0,1W	
3931	4822 051 20102	1K00	5%	0,1W	
3932	4822 051 20153	15K00	5%	0,1W	
3933	4822 051 20153	15K00	5%	0,1W	
3934	4822 051 20102	1K00	5%	0,1W	
3935	4822 051 20102	1K00	5%	0,1W	
3936	4822 051 20103	10K00	5%	0,1W	
3937	4822 051 20103	10K00	5%	0,1W	
3938	4822 051 20153	15K00	5%	0,1W	
3939	4822 051 20181	180R00	5%	0,1W	
3951	4822 051 20153	15K00	5%	0,1W	
3958	4822 051 20102	1K00	5%	0,1W	

JUMPERS

4101			
--	4822 051 20008	0R00	JUMP(0805)
4908			

COILS

5201	4822 152 20678	33UH
5202	4822 152 20677	10MUH
5203	4822 152 20677	10MUH
5205	4822 152 20678	33UH
5206	4822 152 20679	68UH
5207	4822 157 50975	1 MH
5210	4822 152 20683	28MUH ADJ.IND.
5211	4822 157 53575	3U3
5212	4822 157 70518	38MH
5227	4822 152 20679	68UH
5228	4822 152 20682	6.15UH
5231	4822 157 50975	1 MH
5232	4822 152 20677	10MUH
5251	4822 157 50975	1 MH
5252	4822 152 20678	33UH
5402	4822 157 50975	1 MH
5701	4822 157 53669	FILTER ASSY
5802	4822 242 81591	QUARZ 8.00MHZ
5905	4822 152 20677	10MUH
5906	4822 152 20677	10MUH
5909	4822 152 20677	10MUH
5910	4822 152 20677	10MUH

DIODS

6211	4822 130 81196	S5566B
6221	5322 130 80119	BBY40
6230	5322 130 34337	BAV99
6301	4822 130 30621	1N4148
6420	5322 130 34337	BAV99
6430	5322 130 34337	BAV99
6551	4822 130 30621	1N4148
6552	5322 130 31504	BZX79-C3V3
6601	4822 130 30621	1N4148
6602	4822 130 30621	1N4148
6704	4822 130 30621	1N4148
6705	4822 130 80751	1S1885 A
6706	4822 130 80751	1S1885 A
6712	5322 130 34331	BAV70
6713	4822 130 31983	BAT85
6714	4822 130 30621	1N4148
6715	4822 130 30621	1N4148
6716	4822 130 80954	BZV55-C5V6
6719	5322 130 34331	BAV70
6805	4822 130 82741	SLP144B-51
6871	4822 130 83074	BZV87
6901	4822 130 80954	BZV55-C5V6
6902	4822 130 80954	BZV55-C5V6
6903	4822 130 80954	BZV55-C5V6
6904	4822 130 30621	1N4148
6905	4822 130 80954	BZV55-C5V6
6907	4822 130 83493	BZV55-C10

TRANSISTORS AND IC's

7201	4822 209 72247	TEA6200/V2
7210	4822 130 42705	BC847
7211	4822 130 61233	BC857
7212	4822 130 42132	BC807
7222	4822 130 60686	BF513
7223	4822 130 42705	BC847
7230	4822 130 62495	2SK507F
7251	4822 209 30858	TSA6057/C1
7252	4822 130 42705	BC847
7301	4822 209 31129	TDA7313
7302	4822 209 83163	LM833N
7351	4822 209 31132	TDA7374V
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7401	4822 209 83159	LA2000
7403	4822 209 31644	TDA7330
7419	4822 130 42705	BC847
7420	4822 209 32742	TL074IN
7501	4822 209 32775	BA3430S
7502	4822 130 42705	BC847
7535	4822 209 62772	HA12135A
7551	4822 130 42705	BC847
7601	4822 209 30859	TDA1591/V3
7602	4822 130 42705	BC847
7603	4822 130 42705	BC847
7604	4822 130 42705	BC847
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7606	4822 130 42705	BC847
7609	4822 130 42705	BC847
7701	4822 209 32687	TDA3602/N2
7703	4822 130 42705	BC847
7704	4822 130 42705	BC847
7705	4822 130 42705	BC847
7706	4822 130 61233	BC857
7711	4822 130 61233	BC857
7712	4822 130 42705	BC847
7714	4822 130 40995	BD438
7715	4822 130 61233	BC857
7716	4822 130 61233	BC857
7717	4822 130 42705	BC847
7718	4822 130 42705	BC847
7719	4822 130 42705	BC847
7721	4822 130 61233	BC857
7801	4822 209 32776	ST62T80
7803	4822 130 42705	BC847
7901	5322 209 11836	HEF4557
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7911	4822 209 32809	P83CE588EFB/002
7913	4822 130 42705	BC847
7914	4822 130 42705	BC847
7924	4822 130 42705	BC847
7925	4822 130 42705	BC847
7926	4822 130 42705	BC847
7927	4822 130 42705	BC847